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<213> Homo sapiens

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<211> 2239

<212> DNA

<213> Homo sapiens

<400> 2076

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<210> 2077

<211> 1670

<212> DNA

<213> Homo sapiens

<400> 2077

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<210> 2078

<211> 2899

<212> DNA

<213> Homo sapiens

<400> 2078

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<210> 2079

<211> 1866

<212> DNA

<213> Homo sapiens

<400> 2079

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<210> 2080

<211> 2368

<212> DNA

<213> Homo sapiens

<400> 2080

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<210> 2081

<211> 2295

<212> DNA

<213> Homo sapiens

<400> 2081

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<211> 1907

<212> DNA

<213> Homo sapiens

<400> 2103

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<212> DNA

<213> Homo sapiens

<400> 2106

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<212> DNA

<213> Homo sapiens

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<211> 2160

<212> DNA

<213> Homo sapiens

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<211> 2439

<212> DNA

<213> Homo sapiens

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<212> DNA

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<212> DNA

<213> Homo sapiens

<400> 2126

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<400> 2128

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<210> 2189

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2189

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Met His Thr His Thr His Thr His Thr Thr Pro Lys Met Ala Asp Leu
  1             5             10             15
Leu Gly Ser Ile Leu Ser Ser Met Glu Lys Pro Pro Ser Leu Gly Asp
      20             25             30
Gln Glu Thr Arg Arg Lys Ala Arg Glu Gln Ala Ala Arg Leu Lys Lys
      35             40             45
Leu Gln Glu Gln Glu Lys Gln Gln Lys Val Glu Phe Arg Lys Arg Met
      50             55             60
Glu Lys Glu Val Ser Asp Phe Ile Gln Asp Ser Gly Gln Ile Lys Lys
      65             70             75             80
Lys Phe Gln Pro Met Asn Lys Ile Glu Arg Ser Ile Leu His Asp Val
      85             90             95

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Val Glu Val Ala Gly Leu Thr Ser Phe Ser Phe Gly Glu Asp Asp Asp
 100 105 110
 Cys Arg Tyr Val Met Ile Phe Lys Lys Glu Phe Ala Pro Ser Asp Glu
 115 120 125
 Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu Trp Asp Pro Gln Lys Ala
 130 135 140
 Glu Glu Lys Arg Lys Leu Lys Glu Leu Ala Gln Arg Gln Glu Glu Glu
 145 150 155 160
 Ala Ala Gln Gln Gly Pro Val Val Val Ser Pro Ala Ser Asp Tyr Lys
 165 170 175
 Asp Lys Tyr Ser His Leu Ile Gly Lys Gly Ala Ala Lys Asp Ala Ala
 180 185 190
 His Met Leu Gln Ala Asn Lys Thr Tyr Gly Cys Val Pro Val Ala Asn
 195 200 205
 Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala Met Asn Glu Ile Arg Ala
 210 215 220
 Lys Lys Arg Leu Arg Gln Ser Gly Glu Glu Leu Pro Pro Thr Ser
 225 230 235

<210> 2190

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2190

Met Ala Ala Ala Ala Ala Ala Gly Glu Ala Arg Arg Val Leu Val Tyr
 1 5 10 15
 Gly Gly Arg Gly Ala Leu Gly Ser Arg Cys Val Gln Ala Phe Arg Ala
 20 25 30
 Arg Asn Trp Val Thr Ala Glu Val Gly Lys Leu Leu Gly Glu Glu Lys
 35 40 45
 Val Asp Ala Ile Leu Cys Val Ala Gly Gly Trp Ala Gly Gly Asn Ala
 50 55 60
 Lys Ser Lys Ser Leu Phe Lys Asn Cys Asp Leu Met Trp Lys Gln Ser
 65 70 75 80

Ile Trp Thr Ser Thr Ile Ser Ser His Leu Ala Thr Lys His Leu Lys
 85 90 95
 Glu Gly Gly Leu Leu Thr Leu Ala Gly Ala Lys Ala Ala Leu Asp Gly
 100 105 110
 Thr Pro Gly Met Ile Gly Tyr Gly Met Ala Lys Gly Ala Val His Gln
 115 120 125
 Leu Cys Gln Ser Leu Ala Gly Lys Asn Ser Gly Met Pro Pro Gly Ala
 130 135 140
 Ala Ala Ile Ala Val Leu Pro Val Thr Leu Asp Thr Pro Met Asn Arg
 145 150 155 160
 Lys Ser Met Pro Glu Ala Asp Phe Ser Ser Trp Thr Pro Leu Glu Phe
 165 170 175
 Leu Val Glu Thr Phe His Asp Trp Ile Thr Gly Lys Asn Arg Pro Ser
 180 185 190
 Ser Gly Ser Leu Ile Gln Val Val Thr Thr Glu Gly Arg Thr Glu Leu
 195 200 205
 Thr Pro Ala Tyr Phe
 210

<210> 2191

<211> 244

<212> PRT

<213> Homo sapiens

<400> 2191

Met Glu Gln Leu Lys Ser Phe Gln Ile Ile Ala His Leu Lys Arg Leu
 1 5 10 15
 Gln Glu Glu Ile Asn Glu Val Lys Thr Trp Ser Asn Arg Ile Thr Glu
 20 25 30
 Lys Gln Asp Ile Leu Asn Asn Ser Leu Thr Thr Leu Ser Gln Asp Ile
 35 40 45
 Thr Lys Val Asp Gln Ser Thr Thr Ser Met Ala Lys Asp Val Gly Leu
 50 55 60
 Lys Ile Thr Ser Val Lys Thr Asp Ile Arg Arg Ile Ser Gly Leu Val
 65 70 75 80

Thr Asp Val Ile Ser Leu Thr Asp Ser Val Gln Glu Leu Glu Asn Lys
 85 90 95
 Ile Glu Lys Val Glu Lys Asn Thr Val Lys Asn Ile Gly Asp Leu Leu
 100 105 110
 Ser Ser Ser Ile Asp Arg Thr Ala Thr Leu Arg Lys Thr Ala Ser Glu
 115 120 125
 Asn Ser Gln Arg Ile Asn Ser Val Lys Lys Thr Leu Thr Glu Leu Lys
 130 135 140
 Ser Asp Phe Asp Lys His Thr Asp Arg Phe Leu Ser Leu Glu Gly Asp
 145 150 155 160
 Arg Ala Lys Val Leu Lys Thr Val Thr Phe Ala Asn Asp Leu Lys Pro
 165 170 175
 Lys Val Tyr Asn Leu Lys Lys Asp Phe Ser Arg Leu Glu Pro Leu Val
 180 185 190
 Asn Asp Leu Thr Leu Arg Ile Gly Arg Leu Val Thr Asp Leu Leu Gln
 195 200 205
 Arg Glu Lys Glu Ile Ala Phe Leu Ser Glu Lys Ile Ser Asn Leu Thr
 210 215 220
 Ile Val Gln Ala Glu Ile Lys Asp Ile Lys Asp Glu Ile Ala His Ile
 225 230 235 240
 Ser Asp Met Asn

<210> 2192

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2192

Met Gln Ser Lys Ala Pro Leu Met Pro Ala Ala Leu Arg Pro Ser Met
 1 5 10 15
 Ser Pro Ala Gln Gln Ser Ser Tyr Tyr Lys Arg His Arg Ala Glu His
 20 25 30
 Ile Ala Ser Asp Pro Glu Glu Ser Pro Pro Ser Gln Leu Gly Thr Ile
 35 40 45

Val Lys Glu Met Cys Trp Arg Lys Ser Pro Ser Val Ser Cys Leu Ser
 50 55 60
 Ile Lys Leu His Ser Val Trp Val Cys Ile Leu Pro Ile Leu Ala Val
 65 70 75 80
 Leu Gly Leu Arg Ile Leu Gly Ser Ser Arg Val Ser Ile Pro Tyr His
 85 90 95
 Ala His Leu Gly Asn Arg Gly Thr Gly Gln Tyr Arg
 100 105

<210> 2193

<211> 475

<212> PRT

<213> Homo sapiens

<400> 2193

Met Asp Trp Thr Trp Arg Val Leu Phe Val Val Ala Ala Ser Thr Gly
 1 5 10 15
 Val Gln Ser Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys
 20 25 30
 Pro Gly Ser Ser Val Lys Val Ser Cys Lys Thr Ser Gly Ala Ser Phe
 35 40 45
 Ala Ser Tyr Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
 50 55 60
 Glu Trp Met Gly Gly Ile Ile Pro Val Phe Arg Thr Pro Asn Tyr Ala
 65 70 75 80
 Gln Lys Phe Gln Gly Arg Leu Thr Ile Thr Ala Asp Asp Ser Thr Gly
 85 90 95
 Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Tyr Glu Asp Thr Ala Val
 100 105 110
 Tyr Tyr Cys Ala Ser Leu Ala Cys Gly Asp Asp Cys Ser Phe Leu Tyr
 115 120 125
 His Tyr Tyr Met Ala Ala Trp Gly Arg Gly Thr Ala Val Thr Val Ser
 130 135 140
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser
 145 150 155 160

Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
 165 170 175
 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
 180 185 190
 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr
 195 200 205
 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
 210 215 220
 Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp
 225 230 235 240
 Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
 245 250 255
 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 260 265 270
 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 275 280 285
 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 290 295 300
 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 305 310 315 320
 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
 325 330 335
 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
 340 345 350
 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
 355 360 365
 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
 370 375 380
 Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
 385 390 395 400
 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
 405 410 415
 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
 420 425 430
 Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
 435 440 445

Asn Val Phe Ser Cys Ser Val Met His Glu Gly Leu His Asn His Tyr
 450 455 460
 Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 465 470 475

<210> 2194

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2194

Met Cys Gly Val Met Ile Tyr Val Phe Phe Phe Glu Met Gly Trp Ser
 1 5 10 15
 Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Val Ile Leu Ala His
 20 25 30
 Cys Asn Leu Cys Leu Leu Gly Ser Ser Asp Leu Pro Ala Ser Ala Ser
 35 40 45
 Ser Val Ala Gly Thr Thr Gly Ala Cys Gln His Thr Arg Leu Ile Phe
 50 55 60
 Val Phe Leu Val Glu Thr Lys Val Pro Gly Leu Lys Arg Ser Met Gly
 65 70 75 80
 Leu Ser Phe Leu Lys Cys Trp Asp Tyr Arg Arg Glu Pro Leu Tyr Thr
 85 90 95
 Phe Asn Leu Ile Ser Cys Met Tyr Tyr Thr Pro Asp Phe Lys Phe Tyr
 100 105 110
 Arg Pro Leu Ile Phe Tyr Ser Leu Pro Lys Gln Met Thr Arg Phe Leu
 115 120 125
 Ala Val Phe Ser Gly
 130

<210> 2195

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2195

Met Leu Pro Ser Lys Ala Phe Glu Phe Ala Thr Val Lys Ser Met His
 1 5 10 15
 Gly Ile Phe Gly Cys Gly Leu Ala Leu Pro Pro Val Phe Thr Ala Glu
 20 25 30
 Leu Leu Tyr Leu Thr Arg Ala Cys Ala Ser Asp Glu Gln Pro Phe Ile
 35 40 45
 Thr Ala Leu Arg Pro Pro Pro Arg Pro Pro Pro Ser Ala Leu Gln Phe
 50 55 60
 Ile Ser Arg Leu Val Pro Ile Ala Thr Cys Gly Leu Gly Gly Pro Pro
 65 70 75 80
 Asp Ile Leu Ser Phe Gly Ser Pro Val Thr Pro Glu Leu Leu Pro Phe
 85 90 95
 Trp Gly Ala His Ile Cys Asp Thr Leu Val Cys Pro Val His Phe Leu
 100 105 110
 His Leu Glu Phe Leu Ser Cys Ser His Ile Ser Ile
 115 120

<210> 2196

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2196

Met Lys Arg Gly Tyr Pro His Pro Ser Glu Gly Leu Ser Val Gly Leu
 1 5 10 15
 Gln Ala Pro Leu Ala Ser Cys Leu Leu Val Gly Thr Ser Gly Ala Ala
 20 25 30
 His Cys Gln Val Gln Leu Ser Arg Pro Cys Cys Val Trp Gly Gln Trp
 35 40 45
 Ala Leu Glu Ser Ser Ser Gln Thr Ala Pro Gly Ala Val Pro Leu Ser
 50 55 60
 Leu Leu Leu Leu Pro Arg Pro Arg Cys Ser Leu Ser Val Leu Gln His
 65 70 75 80

his Trp
95
er Ser
ln Asp

rp Ser
15
la Leu

ly Glu

ys Ala

eu Thr
80
ly Gln
95
ly Ala

hr Phe

lu Asp

<210> 2198

<211> 392

<212> PRT

<213> Homo sapiens

<400> 2198

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Met Leu Ala Pro Cys Phe Leu Tyr Ser Leu Gln Asn Trp Asp Ile Ile
 1             5             10             15
Phe Asn Ala Gln Tyr Pro Glu Leu Pro Pro Asp Phe Ile Phe Gly Glu
      20             25             30
Asp Ala Glu Phe Leu Pro Asp Pro Ser Ala Leu Gln Asn Leu Ala Ser
      35             40             45
Trp Asn Pro Ser Asn Pro Glu Cys Leu Leu Leu Val Val Lys Glu Leu
      50             55             60
Val Gln Gln Tyr His Gln Phe Gln Cys Ser Arg Leu Arg Glu Ser Ser
      65             70             75             80
Arg Leu Met Phe Glu Tyr Gln Thr Leu Leu Glu Glu Pro Gln Tyr Gly
      85             90             95
Glu Asn Met Glu Ile Tyr Ala Gly Lys Lys Asn Asn Trp Asn Leu Ala
      100            105            110
Ser Trp Asn Pro Ser Asn Pro Glu Cys Leu Leu Leu Val Val Lys Glu
      115            120            125
Leu Val Gln Gln Tyr His Gln Phe Gln Cys Ser Arg Leu Arg Glu Ser
      130            135            140
Ser Arg Leu Met Phe Glu Tyr Gln Thr Leu Leu Glu Glu Pro Gln Tyr
      145            150            155            160
Gly Glu Asn Met Glu Ile Tyr Ala Gly Lys Lys Asn Asn Trp Thr Gly
      165            170            175
Glu Phe Ser Ala Arg Phe Leu Leu Lys Leu Pro Val Asp Phe Ser Asn
      180            185            190
Ile Pro Thr Tyr Leu Leu Lys Asp Val Asn Glu Asp Pro Gly Glu Asp
      195            200            205
Val Ala Leu Leu Ser Val Ser Phe Glu Asp Thr Glu Ala Thr Gln Val
      210            215            220

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Tyr	Pro	Lys	Leu	Tyr	Leu	Ser	Pro	Arg	Ile	Glu	His	Ala	Leu	Gly	Gly
225				230				235				240			
Ser	Ser	Ala	Leu	His	Ile	Pro	Ala	Phe	Pro	Gly	Gly	Gly	Cys	Leu	Ile
245						250						255			
Asp	Tyr	Val	Pro	Gln	Val	Cys	His	Leu	Leu	Thr	Asn	Lys	Val	Gln	Tyr
260				265				270							
Val	Ile	Gln	Gly	Tyr	His	Lys	Arg	Arg	Glu	Tyr	Ile	Ala	Ala	Phe	Leu
275				280				285							
Ser	His	Phe	Gly	Thr	Gly	Val	Val	Glu	Tyr	Asp	Ala	Glu	Gly	Phe	Thr
290				295				300							
Lys	Leu	Thr	Leu	Leu	Leu	Met	Trp	Lys	Asp	Phe	Cys	Phe	Leu	Val	His
305				310				315				320			
Ile	Asp	Leu	Pro	Leu	Phe	Phe	Pro	Arg	Asp	Gln	Pro	Thr	Leu	Thr	Phe
325						330						335			
Gln	Ser	Val	Tyr	His	Phe	Thr	Asn	Ser	Gly	Gln	Leu	Tyr	Ser	Gln	Ala
340				345				350							
Gln	Lys	Asn	Tyr	Pro	Tyr	Ser	Pro	Arg	Trp	Asp	Gly	Asn	Glu	Met	Ala
355				360				365							
Lys	Arg	Ala	Lys	Ala	Tyr	Phe	Lys	Thr	Phe	Val	Pro	Gln	Phe	Gln	Glu
370				375				380							
Ala	Ala	Phe	Ala	Asn	Gly	Lys	Leu								
385				390											

<210> 2199

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2199

Met Gln Thr Ser Phe Ala Ala Lys Glu Pro Gly Gln Ala Arg Leu Leu
1 5 10 15
Pro Gly Leu Ala Arg Asn Arg Leu Arg Arg His Phe Pro Leu Ser Leu
20 25 30
Pro Gly Pro Glu Arg Ser Pro Pro Leu Pro Ser Arg Pro Leu Ser Gly
35 40 45

Ser Leu Gln Val Ser Ile Gln Lys Arg Leu Arg Ala Ala Gln Arg Trp
 50 55 60
 Arg Pro Gly Gly Ala Glu Ala Arg Gly Gln Met Thr Arg Leu Gly Gly
 65 70 75 80
 Lys Gly Gly Gln Gln Phe Pro Pro Gly Gln Lys Ile Ile Ser Lys Asp
 85 90 95
 Ile Leu Ala Leu Thr Ala Leu Ser Val Ala Arg Lys Leu Ser Ser Val
 100 105 110
 Asn Cys

<210> 2200

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2200

Met Gly Leu Pro Arg Pro Lys Arg Leu Lys Lys Lys Glu Phe Ser Leu
 1 5 10 15
 Glu Glu Ile Tyr Thr Asn Lys Asn Tyr Lys Ser Pro Pro Ala Asn Arg
 20 25 30
 Cys Leu Glu Thr Ile Phe Glu Glu Pro Lys Glu Arg Asn Gly Thr Leu
 35 40 45
 Ile Ser Ile Ser Gln Gln Lys Arg Lys Arg Val Leu Glu Phe Gln Asp
 50 55 60
 Phe Thr Val Pro Arg Lys Arg Arg Ala Arg Gly Lys Val Lys Val Ala
 65 70 75 80
 Gly Ser Phe Thr Arg Ala Gln Lys Ala Ala Val Gln Ser Arg Glu Leu
 85 90 95
 Asp Ala Leu Leu Ile Gln Lys Leu Met Glu Leu Glu Thr Phe Phe Ala
 100 105 110
 Lys Glu Glu Glu Gln Glu Gln Ser Ser Gly Cys
 115 120

<210> 2201

<211> 364

<212> PRT

<213> Homo sapiens

<400> 2201

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Met Cys Phe Arg Val Lys Phe Tyr Pro Ala Asp Pro Ala Ala Leu Lys
 1             5             10             15
Glu Glu Ile Thr Arg Tyr Leu Val Phe Leu Gln Ile Lys Arg Asp Leu
      20             25             30
Tyr His Gly Arg Leu Leu Cys Lys Thr Ser Asp Ala Ala Leu Leu Ala
      35             40             45
Ala Tyr Ile Leu Gln Ala Glu Ile Gly Asp Tyr Asp Ser Gly Lys His
      50             55             60
Pro Glu Gly Tyr Ser Ser Lys Phe Gln Phe Phe Pro Lys His Ser Glu
      65             70             75             80
Lys Leu Glu Arg Lys Ile Ala Glu Ile His Lys Thr Glu Leu Ser Gly
      85             90             95
Gln Thr Pro Ala Thr Ser Glu Leu Asn Phe Leu Arg Lys Ala Gln Thr
      100            105            110
Leu Glu Thr Tyr Gly Val Asp Pro His Pro Cys Lys Asp Val Ser Gly
      115            120            125
Asn Ala Ala Phe Leu Ala Phe Thr Pro Phe Gly Phe Val Val Leu Gln
      130            135            140
Gly Asn Lys Arg Val His Phe Ile Lys Trp Asn Glu Val Thr Lys Leu
      145            150            155            160
Lys Phe Glu Gly Lys Thr Phe Tyr Leu Tyr Glu Lys Lys Ile Ile Leu
      165            170            175
Thr Tyr Phe Ala Pro Thr Pro Glu Ala Cys Lys His Leu Trp Lys Cys
      180            185            190
Gly Ile Glu Asn Gln Ala Phe Tyr Lys Leu Glu Lys Ser Ser Gln Val
      195            200            205
Arg Thr Val Ser Ser Ser Asn Leu Phe Phe Lys Gly Ser Arg Phe Arg
      210            215            220
Tyr Ser Gly Arg Val Ala Lys Glu Val Met Glu Ser Ser Ala Lys Ile
      225            230            235            240

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<211> 446

<213> Homo sapiens

Met	Asp	Ser	Ser	Ala	Val	Val	Lys	Gly	Thr	Asn	Ser	His	Val	Pro	Asp
1				5					10					15	
Cys	His	Thr	Lys	Gly	Ser	Ser	Phe	Leu	Gly	Lys	Glu	Leu	Ser	Leu	Asp
			20					25					30		
Glu	Ala	Phe	Pro	Asp	Gln	Gln	Asn	Gly	Ser	Ala	Thr	Asn	Ala	Trp	Asp
		35					40					45			
Gln	Ser	Ser	Cys	Ser	Ser	Pro	Lys	Trp	Glu	Cys	Thr	Glu	Leu	Ile	His
50						55					60				
Asp	Ile	Pro	Leu	Pro	Glu	His	Arg	Ser	Asn	Thr	Met	Phe	Ile	Ser	Glu
65					70				75					80	
Thr	Glu	Arg	Glu	Ile	Met	Thr	Leu	Gly	Gln	Glu	Asn	Gln	Thr	Ser	Ser
				85				90						95	

Val Ser Asp Asp Arg Val Lys Leu Ser Val Ser Gly Ala Asp Thr Ser			
100	105	110	
Val Ser Ser Val Asp Gly Pro Val Ser Gln Lys Ala Val Gln Asn Glu			
115	120	125	
Asn Ser Tyr Gln Met Glu Glu Asp Gly Ser Leu Lys Gln Ser Ile Leu			
130	135	140	
Ser Ser Glu Leu Leu Asp His Pro Tyr Cys Lys Ser Pro Leu Glu Ala			
145	150	155	160
Pro Leu Val Cys Ser Gly Leu Lys Leu Glu Asn Gln Val Gly Gly Gly			
165	170	175	
Lys Asn Ser Gln Lys Ala Ser Pro Val Asp Asp Glu Gln Leu Ser Val			
180	185	190	
Cys Leu Ser Gly Phe Leu Asp Glu Val Met Lys Lys Tyr Gly Ser Leu			
195	200	205	
Val Pro Leu Ser Glu Lys Glu Val Leu Gly Arg Leu Lys Asp Val Phe			
210	215	220	
Asn Glu Asp Phe Ser Asn Arg Lys Pro Phe Ile Asn Arg Glu Ile Thr			
225	230	235	240
Asn Tyr Arg Ala Arg His Gln Lys Cys Asn Phe Arg Ile Phe Tyr Asn			
245	250	255	
Lys His Met Leu Asp Met Asp Asp Leu Ala Thr Leu Asp Gly Gln Asn			
260	265	270	
Trp Leu Asn Asp Gln Val Ile Asn Met Tyr Gly Glu Leu Ile Met Asp			
275	280	285	
Ala Val Pro Asp Lys Val His Phe Phe Asn Ser Phe Phe His Arg Gln			
290	295	300	
Leu Val Thr Lys Gly Tyr Asn Gly Val Lys Arg Trp Thr Lys Lys Val			
305	310	315	320
Asp Leu Phe Lys Lys Ser Leu Leu Leu Ile Pro Ile His Leu Glu Val			
325	330	335	
His Trp Ser Leu Ile Thr Val Thr Leu Ser Asn Arg Ile Ile Ser Phe			
340	345	350	
Tyr Asp Ser Gln Gly Ile His Phe Lys Phe Cys Val Glu Asn Ile Arg			
355	360	365	
Lys Tyr Leu Leu Thr Glu Ala Arg Glu Lys Asn Arg Pro Glu Phe Leu			
370	375	380	

Gln	Gly	Trp	Gln	Thr	Ala	Val	Thr	Lys	Cys	Ile	Pro	Gln	Gln	Lys	Asn
385					390					395					400
Asp	Ser	Asp	Cys	Gly	Val	Phe	Val	Leu	Gln	Tyr	Cys	Lys	Cys	Leu	Ala
				405					410					415	
Leu	Glu	Gln	Pro	Phe	Gln	Phe	Ser	Gln	Glu	Asp	Met	Pro	Arg	Val	Arg
			420					425					430		
Lys	Arg	Ile	Tyr	Lys	Glu	Leu	Cys	Glu	Cys	Arg	Leu	Met	Asp		
		435					440					445			

<210> 2203

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2203

Met	Val	Ile	Phe	Arg	Trp	Trp	Lys	Ile	Ser	Leu	Arg	Ser	Glu	Tyr	Arg
1				5					10					15	
Ser	Thr	Lys	Pro	Gly	Glu	Ala	Lys	Glu	Thr	His	Glu	Asp	Phe	Leu	Glu
			20					25					30		
Asn	Ser	His	Leu	Gln	Gly	Gln	Thr	Ala	Leu	Ile	Phe	Gly	Ala	Arg	Ile
		35				40					45				
Leu	Asp	Tyr	Val	Ile	Asn	Leu	Cys	Lys	Gly	Lys	Phe	Asp	Phe	Leu	Glu
	50					55				60					
Arg	Leu	Ser	Asp	Asp	Leu	Leu	Leu	Thr	Ile	Ile	Ser	Tyr	Leu	Asp	Leu
65				70					75					80	
Glu	Asp	Ile	Ala	Arg	Leu	Cys	Gln	Thr	Ser	His	Arg	Phe	Ala	Lys	Leu
			85					90					95		
Cys	Met	Ser	Asp	Lys	Leu	Trp	Glu	Gln	Ile	Val	Gln	Ser	Thr	Cys	Asp
		100				105						110			
Thr	Ile	Thr	Pro	Asp	Val	Arg	Ala	Leu	Ala	Glu	Asp	Thr	Gly	Trp	Arg
	115					120					125				
Gln	Leu	Phe	Phe	Thr	Asn	Lys	Leu	Gln	Leu	Gln	Arg	Gln	Leu	Arg	Lys
	130					135				140					
Arg	Lys	Gln	Lys	Tyr	Gly	Asn	Leu	Arg	Glu	Lys	Gln	Pro			
145				150					155						

<210> 2204

<211> 430

<212> PRT

<213> Homo sapiens

<400> 2204

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Met Ala Glu Pro Gln Ala Glu Ser Glu Pro Leu Leu Gly Gly Ala Arg
 1             5             10             15
Gly Gly Gly Gly Asp Trp Pro Ala Gly Leu Thr Thr Tyr Arg Ser Ile
          20             25             30
Arg Val Gly Pro Gly Ala Ala Ala Arg Trp Asp Leu Cys Ile Asp Gln
      35             40             45
Ala Val Val Phe Ile Glu Asp Ala Ile Gln Gly Tyr Leu Phe Gly Trp
      50             55             60
Ala His Phe Gln Lys Asn Leu Trp Leu Leu Gly Tyr Leu Val Val Leu
      65             70             75             80
Val Val Ser Leu Val Asp Trp Thr Val Ser Leu Ser Leu Val Cys His
          85             90             95
Glu Pro Leu Arg Ile Arg Arg Leu Leu Arg Pro Phe Phe Leu Leu Gln
          100             105             110
Asn Ser Ser Met Met Lys Lys Thr Leu Lys Cys Ile Arg Trp Ser Leu
          115             120             125
Pro Glu Met Ala Ser Val Gly Leu Leu Leu Ala Ile His Leu Cys Leu
          130             135             140
Phe Thr Met Phe Gly Met Leu Leu Phe Ala Gly Gly Lys Gln Asp Asp
      145             150             155             160
Gly Gln Asp Arg Glu Arg Leu Thr Tyr Phe Gln Asn Leu Pro Glu Ser
          165             170             175
Leu Thr Ser Leu Leu Val Leu Leu Thr Thr Ala Asn Asn Pro Asp Val
          180             185             190
Met Ile Pro Ala Tyr Ser Lys Asn Arg Ala Tyr Ala Ile Phe Phe Ile
          195             200             205
Val Phe Thr Val Ile Gly Ser Leu Phe Leu Met Asn Leu Leu Thr Ala
          210             215             220

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Ile	Ile	Tyr	Ser	Gln	Phe	Arg	Gly	Tyr	Leu	Met	Lys	Ser	Leu	Gln	Thr
225					230					235					240
Ser	Leu	Phe	Arg	Arg	Arg	Leu	Gly	Thr	Arg	Ala	Ala	Phe	Glu	Val	Leu
				245					250					255	
Ser	Ser	Met	Val	Gly	Glu	Gly	Gly	Ala	Phe	Pro	Gln	Ala	Val	Gly	Val
			260					265					270		
Lys	Pro	Gln	Asn	Leu	Leu	Gln	Val	Leu	Gln	Lys	Val	Gln	Leu	Asp	Ser
	275							280				285			
Ser	His	Lys	Gln	Ala	Met	Met	Glu	Lys	Val	Arg	Ser	Tyr	Gly	Ser	Val
290						295					300				
Leu	Leu	Ser	Ala	Glu	Glu	Phe	Gln	Lys	Leu	Phe	Asn	Glu	Leu	Asp	Arg
305					310					315					320
Ser	Val	Val	Lys	Glu	His	Pro	Pro	Arg	Pro	Glu	Tyr	Gln	Ser	Pro	Phe
			325						330					335	
Leu	Gln	Ser	Ala	Gln	Phe	Leu	Phe	Gly	His	Tyr	Tyr	Phe	Asp	Tyr	Leu
			340					345					350		
Gly	Asn	Leu	Ile	Ala	Leu	Ala	Asn	Leu	Val	Ser	Ile	Cys	Val	Phe	Leu
	355						360					365			
Val	Leu	Asp	Ala	Asp	Val	Leu	Pro	Ala	Glu	Arg	Asp	Asp	Phe	Ile	Leu
370						375					380				
Gly	Ile	Leu	Asn	Cys	Val	Phe	Ile	Val	Tyr	Tyr	Leu	Leu	Glu	Met	Leu
385					390					395					400
Leu	Lys	Val	Phe	Ala	Leu	Gly	Leu	Arg	Gly	Tyr	Leu	Ser	Tyr	Pro	Ser
			405						410					415	
Asn	Val	Phe	Asp	Gly	Leu	Leu	Thr	Val	Val	Leu	Leu	Val	Lys		
			420					425					430		

<210> 2205

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2205

Met Pro Ser Phe Leu Pro Ile His Tyr Cys Ser Pro Asn Val Leu Cys

1 5 10 15
 Val Trp Thr Ala Ile Thr Ser Ser Thr Phe Ser Pro Tyr Tyr Leu Leu
 20 25 30
 Ile Leu Gln Asn Ser Ala His Pro Gln Ile Pro Leu Arg Ser Pro Ser
 35 40 45
 Gly Cys Ser Ser Pro Ser Asn Leu Asn Lys Met Ser Phe Leu Gly Ala
 50 55 60
 Leu Ile Ala Phe Arg Leu Asp Thr Gly Pro Gln Ser Glu Val Ser Ala
 65 70 75 80
 Trp Thr Ala Ser Pro Ser Ser Gly Asn Ser Leu Glu Met Gln Ile Met
 85 90 95
 Arg Pro Tyr Pro Arg Pro Pro Glu Thr Glu Thr Leu Gly Val Gly Pro
 100 105 110
 Thr Thr Cys Val Leu Thr Ser Pro Ala Gly Asp Cys Asp Glu His Lys
 115 120 125
 Val

<210> 2206

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2206

Met Ala Ala Pro Cys Arg Cys Gly Trp Thr Trp Val Glu Leu Val Arg
 1 5 10 15
 Glu Ala Arg Cys Leu Asp Leu Leu Met Val Thr Gly Leu Ala Val Lys
 20 25 30
 Ala His Leu Gly Ser Val Ser Thr Pro Trp Ser Ser His Val Ser Val
 35 40 45
 Thr Phe Gln His Trp Pro Asp Gly Gly Asn Leu Leu Arg Ala His Ser
 50 55 60
 Pro Ala Pro Trp His Ser Arg Ser Gln Leu Ser Leu Ile Arg Thr Arg
 65 70 75 80
 Cys Pro Leu Val Arg Leu Leu Val Ile Gly Phe Pro Ser Ser Pro Asn

85 90 95
 Val Pro Val Ile Ser His
 100

<210> 2207

<211> 555

<212> PRT

<213> Homo sapiens

<400> 2207

Met Ile Val Thr Gly Gly Leu Ala Trp Trp Asn Asp Phe Met Val Leu
 1 5 10 15
 Ala Cys Tyr Asn Ile Asn Asp Arg Gln Glu Glu Leu Arg Val Tyr Leu
 20 25 30
 Arg Thr Ser Asn Leu Asp Asn Ala Phe Ala His Val Thr Lys Ala Gln
 35 40 45
 Ala Glu Thr Leu Leu Leu Ser Val Phe Gln Asp Met Val Ile Val Phe
 50 55 60
 Arg Ala Asp Cys Ser Ile Cys Leu Tyr Ser Ile Glu Arg Lys Ser Asp
 65 70 75 80
 Gly Pro Asn Thr Thr Ala Gly Ile Gln Val Leu Gln Glu Val Ser Met
 85 90 95
 Ser Arg Tyr Ile Pro His Pro Phe Leu Val Val Ser Val Thr Leu Thr
 100 105 110
 Ser Val Ser Thr Glu Asn Gly Ile Thr Leu Lys Met Pro Gln Gln Ala
 115 120 125
 Arg Gly Ala Glu Ser Ile Met Leu Asn Leu Ala Gly Gln Leu Ile Met
 130 135 140
 Met Gln Arg Asp Arg Ser Gly Pro Gln Ile Arg Glu Lys Asp Ser Asn
 145 150 155 160
 Pro Asn Asn Gln Arg Lys Leu Leu Pro Phe Cys Pro Pro Val Val Leu
 165 170 175
 Ala Gln Ser Val Glu Asn Val Trp Thr Thr Cys Arg Ala Asn Lys Gln
 180 185 190
 Lys Arg His Leu Leu Glu Ala Leu Trp Leu Ser Cys Gly Gly Ala Gly

195	200	205
Met Lys Val Trp Leu Pro Leu Phe Pro Arg Asp His Arg Lys Pro His		
210	215	220
Ser Phe Leu Ser Gln Arg Ile Met Leu Pro Phe His Ile Asn Ile Tyr		
225	230	235
Pro Leu Ala Val Leu Phe Glu Asp Ala Leu Val Leu Gly Ala Val Asn		
245	250	255
Asp Thr Leu Leu Tyr Asp Ser Leu Tyr Thr Arg Asn Asn Ala Arg Glu		
260	265	270
Gln Leu Glu Val Leu Phe Pro Phe Cys Val Val Glu Arg Thr Ser Gln		
275	280	285
Ile Tyr Leu His His Ile Leu Arg Gln Leu Leu Val Arg Asn Leu Gly		
290	295	300
Glu Gln Ala Leu Leu Leu Ala Gln Ser Cys Ala Thr Leu Pro Tyr Phe		
305	310	315
Pro His Val Leu Glu Leu Met Leu His Glu Val Leu Glu Glu Glu Ala		
325	330	335
Thr Ser Arg Glu Pro Ile Pro Asp Pro Leu Leu Pro Thr Val Ala Lys		
340	345	350
Phe Ile Thr Glu Phe Pro Leu Phe Leu Gln Thr Val Val His Cys Ala		
355	360	365
Arg Lys Thr Glu Tyr Ala Leu Trp Asn Tyr Leu Phe Ala Ala Val Gly		
370	375	380
Asn Pro Lys Asp Leu Phe Glu Glu Cys Leu Met Ala Gln Asp Leu Asp		
385	390	395
Thr Ala Ala Ser Tyr Leu Ile Ile Leu Gln Asn Met Glu Val Pro Ala		
405	410	415
Ile Ser Arg Gln His Ala Thr Leu Leu Phe Asn Thr Ala Leu Glu Gln		
420	425	430
Gly Lys Trp Asp Leu Cys Arg His Met Ile Arg Phe Leu Lys Ala Ile		
435	440	445
Gly Ser Gly Glu Ser Glu Thr Pro Pro Ser Thr Pro Thr Ala Gln Glu		
450	455	460
Pro Ser Ser Ser Gly Gly Phe Glu Phe Phe Arg Asn Arg Ser Ile Ser		
465	470	475
Leu Ser Gln Ser Ala Glu Asn Val Pro Ala Ser Lys Phe Ser Leu Gln		

	485		490		495
Lys Thr Leu Ser Met Pro Ser Gly Pro Ser Gly Lys Arg Trp Ser Lys					
	500		505		510
Asp Ser Asp Cys Ala Glu Asn Met Tyr Ile Asp Met Met Leu Trp Arg					
	515		520		525
His Ala Arg Arg Leu Leu Glu Asp Val Arg Leu Lys Asp Leu Gly Cys					
	530		535		540
Phe Ala Ala Gln Leu Gly Phe Glu Leu Ile Ser					
545		550		555	

<210> 2208

<211> 1235

<212> PRT

<213> Homo sapiens

<400> 2208

Met Asp His Thr Ala Ser Gln Asn Ala Gln Asp Leu Ile Gly Ile Pro			
1	5	10	15
His Leu Gly Val Ser Gly Ser Ser Thr Lys Trp His Ser Glu Leu Ser			
	20	25	30
Pro Thr Glu Gly Pro His Ser Ala Gly Ser Ser Thr Pro Gly Phe Leu			
	35	40	45
Ser Pro Met Ala Glu Leu Ser His Pro Ser Pro Pro Pro Ala Leu			
	50	55	60
Gly Ser Leu Leu Gln Leu Pro Asp Gly Ser Pro Ser Trp Ser Met Leu			
65	70	75	80
Glu Val Ala Ser Gly Pro Ala Ser Thr Gln Gln Ile Lys Ala Gly Val			
	85	90	95
Pro Gly Arg Val His Asn Gly Val Ser Leu Pro Thr Phe Lys Asn Thr			
	100	105	110
Glu Thr Ala Thr His Glu Ala Glu Pro Pro Leu Phe Gln Thr Ala Glu			
	115	120	125
Ser Gly Ala Ile Glu Met Thr Ser Arg Lys Leu Ala Ser Ala Thr Ala			
	130	135	140
Asn Asp Ser Ala Asn Pro Leu His Leu Ser Ala Ala Pro Glu Asn Ser			

145	150	155	160
Arg Gly Pro Ala Leu Ser Ala Glu His Thr Ser Ser Leu Val Pro Ser			
165	170	175	
Leu His Ile Thr Thr Leu Gly Gln Glu Gln Ala Ile Leu Ser Gly Ala			
180	185	190	
Val Pro Ala Ser Pro Ser Thr Gly Thr Ala Asp Phe Pro Ser Ile Leu			
195	200	205	
Thr Phe Leu Gln Pro Thr Glu Asn His Ala Ser Pro Ser Pro Val Pro			
210	215	220	
Glu Met Pro Thr Leu Pro Ala Glu Gly Ser Asp Gly Ser Pro Pro Ala			
225	230	235	240
Thr Arg Asp Leu Leu Leu Ser Ser Lys Val Pro Asn Leu Leu Ser Thr			
245	250	255	
Ser Trp Thr Phe Pro Arg Trp Lys Lys Asp Ser Val Thr Ala Ile Leu			
260	265	270	
Gly Lys Asn Glu Glu Ala Asn Val Thr Ile Pro Leu Gln Ala Phe Pro			
275	280	285	
Arg Lys Glu Val Leu Ser Leu His Thr Val Asn Gly Phe Val Ser Asp			
290	295	300	
Phe Ser Thr Gly Ser Val Ser Ser Pro Ile Ile Thr Ala Pro Arg Thr			
305	310	315	320
Asn Pro Leu Pro Ser Gly Pro Pro Leu Pro Ser Ile Leu Ser Ile Gln			
325	330	335	
Ala Thr Gln Thr Val Phe Pro Ser Leu Gly Phe Ser Ser Thr Lys Pro			
340	345	350	
Glu Ala Tyr Ala Ala Ala Val Asp His Ser Gly Leu Pro Ala Ser Ala			
355	360	365	
Ser Lys Gln Val Arg Ala Ser Pro Ser Ser Met Asp Val Tyr Asp Ser			
370	375	380	
Leu Thr Ile Gly Asp Met Lys Lys Pro Ala Thr Thr Asp Val Phe Trp			
385	390	395	400
Ser Ser Leu Ser Ala Glu Thr Gly Ser Leu Ser Thr Glu Ser Ile Ile			
405	410	415	
Ser Gly Leu Gln Gln Gln Thr Asn Tyr Asp Leu Asn Gly His Thr Ile			
420	425	430	
Ser Thr Thr Ser Trp Glu Thr His Leu Ala Pro Thr Ala Pro Pro Asn			

435	440	445
Gly Leu Thr Ser Ala Ala Asp	Ala Ile Lys Ser Gln Asp Phe Lys Asp	
450	455	460
Thr Ala Gly His Ser Val Thr Ala Glu Gly Phe Ser Ile Gln Asp Leu		
465	470	475
Val Leu Gly Thr Ser Ile Glu Gln Pro Val Gln Gln Ser Asp Met Thr		
485	490	495
Met Val Gly Ser His Ile Asp Leu Trp Pro Thr Ser Asn Asn Asn His		
500	505	510
Ser Arg Asp Phe Gln Thr Ala Glu Val Ala Tyr Tyr Ser Pro Thr Thr		
515	520	525
Arg His Ser Val Ser His Pro Gln Leu Gln Leu Pro Asn Gln Pro Ala		
530	535	540
His Pro Leu Leu Leu Thr Ser Pro Gly Pro Thr Ser Thr Gly Ser Leu		
545	550	555
Gln Glu Met Leu Ser Asp Gly Thr Asp Thr Gly Ser Glu Ile Ser Ser		
565	570	575
Asp Ile Asn Ser Ser Pro Glu Arg Asn Ala Ser Thr Pro Phe Gln Asn		
580	585	590
Ile Leu Gly Tyr His Ser Ala Ala Glu Ser Ser Ile Ser Thr Ser Val		
595	600	605
Phe Pro Arg Thr Ser Ser Arg Val Leu Arg Ala Ser Gln His Pro Lys		
610	615	620
Lys Trp Thr Gly Ala Ala Thr Asn Ala Ala Asp Thr Val Ser Ser Lys		
625	630	635
Val Gln Pro Thr Ala Ala Ala Ala Val Thr Leu Phe Leu Arg Lys Ser		
645	650	655
Ser Pro Pro Ala Leu Ser Ala Ala Leu Val Ala Lys Gly Thr Ser Ser		
660	665	670
Ser Pro Leu Ala Val Ala Ser Gly Pro Ala Lys Ser Ser Ser Met Thr		
675	680	685
Thr Leu Ala Lys Asn Val Thr Asn Lys Ala Ala Ser Gly Pro Lys Arg		
690	695	700
Thr Pro Gly Ala Val His Thr Ala Phe Pro Phe Thr Pro Thr Tyr Met		
705	710	715
Tyr Ala Arg Thr Gly His Thr Thr Ser Thr His Thr Ala Met Gln Gly		

	725		730		735
Asn Met Asp Thr Ala Ser Gly Leu Leu Ser Thr Thr Tyr Leu Pro Arg					
	740		745		750
Lys Pro Gln Ala Met His Thr Gly Leu Pro Asn Pro Thr Asn Leu Glu					
	755		760		765
Met Pro Arg Ala Ser Thr Pro Arg Pro Leu Thr Val Thr Ala Ala Leu					
	770		775		780
Thr Ser Ile Thr Ala Ser Val Lys Ala Thr Arg Leu Pro Pro Leu Arg					
785		790		795	800
Ala Glu Asn Thr Asp Ala Val Leu Pro Ala Ala Ser Ala Ala Val Val					
	805		810		815
Thr Thr Gly Lys Met Ala Ser Asn Leu Glu Cys Gln Met Ser Ser Lys					
	820		825		830
Leu Leu Val Lys Thr Val Leu Phe Leu Thr Gln Arg Arg Val Gln Ile					
	835		840		845
Ser Glu Ser Leu Lys Phe Ser Ile Ala Lys Gly Leu Thr Gln Ala Leu					
	850		855		860
Arg Lys Ala Phe His Gln Asn Asp Val Ser Ala His Val Asp Ile Leu					
865		870		875	880
Glu Tyr Ser His Asn Val Thr Val Gly Tyr Tyr Ala Thr Lys Gly Lys					
	885		890		895
Leu Val Tyr Leu Pro Ala Val Val Ile Glu Met Leu Gly Val Tyr Gly					
	900		905		910
Val Ser Asn Val Thr Ala Asp Leu Lys Gln His Thr Pro His Leu Gln					
	915		920		925
Ser Val Ala Val Leu Ala Ser Pro Trp Asn Pro Gln Pro Ala Gly Tyr					
	930		935		940
Phe Gln Leu Lys Thr Val Leu Gln Phe Val Ser Gln Ala Asp Asn Ile					
945		950		955	960
Gln Ser Cys Lys Phe Ala Gln Thr Met Glu Gln Arg Leu Gln Lys Ala					
	965		970		975
Phe Gln Asp Ala Glu Arg Lys Val Leu Asn Thr Lys Ser Asn Leu Thr					
	980		985		990
Ile Gln Ile Val Ser Thr Ser Asn Ala Ser Gln Ala Val Thr Leu Val					
	995		1000		1005
Tyr Val Val Gly Asn Gln Ser Thr Phe Leu Asn Gly Thr Val Ala Ser					

1010	1015	1020	
Ser Leu Leu Ser Gln Leu Ser Ala Glu Leu Val Gly Phe Tyr Leu Thr			
1025	1030	1035	1040
Tyr Pro Pro Leu Thr Ile Ala Glu Pro Leu Glu Tyr Pro Asn Leu Asp			
	1045	1050	1055
Ile Ser Glu Thr Thr Arg Asp Tyr Trp Val Ile Thr Val Leu Gln Gly			
	1060	1065	1070
Val Asp Asn Ser Leu Val Gly Leu His Asn Gln Ser Phe Ala Arg Val			
1075	1080	1085	
Met Glu Gln Arg Leu Ala Gln Leu Phe Met Met Ser Gln Gln Gln Gly			
1090	1095	1100	
Arg Arg Phe Lys Arg Ala Thr Thr Leu Gly Ser Tyr Thr Val Gln Met			
1105	1110	1115	1120
Val Lys Met Gln Arg Val Pro Gly Pro Lys Asp Pro Ala Glu Leu Thr			
	1125	1130	1135
Tyr Tyr Thr Leu Tyr Asn Gly Lys Pro Leu Leu Gly Thr Ala Ala Ala			
	1140	1145	1150
Lys Ile Leu Ser Thr Ile Asp Ser Gln Arg Met Ala Leu Thr Leu His			
1155	1160	1165	
His Val Val Leu Leu Gln Ala Asp Pro Val Val Lys Asn Pro Pro Asn			
1170	1175	1180	
Asn Leu Trp Ile Ile Ala Ala Val Leu Ala Pro Ile Ala Val Val Thr			
1185	1190	1195	1200
Val Ile Ile Ile Ile Ile Thr Ala Val Leu Cys Arg Lys Asn Lys Asn			
	1205	1210	1215
Asp Phe Lys Pro Asp Thr Met Ile Asn Leu Pro Gln Arg Ala Lys Gln			
	1220	1225	1230
Val Ala Gln			
1235			

<210> 2209

<211> 155

<212> PRT

<213> Homo sapiens

<400> 2209

Met Ser Ile Thr Ser Thr Val Lys Ala Ser Leu Cys Ser Gly Val Val
 1 5 10 15
 Ser His Phe Pro Lys Ile Asn Thr Val Asn Thr Asp Glu His Cys Cys
 20 25 30
 Leu Tyr Val Met Ser Glu Ile Pro His Pro Phe Met His Lys Tyr Val
 35 40 45
 Cys Ile Tyr Ala Tyr Thr Phe Thr His Ile Tyr Arg His Leu Phe Ile
 50 55 60
 Tyr Thr Cys Lys Tyr Val Tyr Tyr Ile His Val Tyr Cys Ile Gly Leu
 65 70 75 80
 Glu Lys Ser Lys His Phe Lys Ser Met Leu Ile Ile Cys Ile Cys Leu
 85 90 95
 Val Asn Thr Ser Arg Gln Arg Gln Val Lys Gln Arg Ser Ser Ile Tyr
 100 105 110
 Phe Phe Val Ser Thr Ile Ala Arg Leu Arg Ser Val Met Ala Leu Leu
 115 120 125
 Gln Leu His Leu Ala Phe Ser Ile Thr Cys Val Ile Lys Phe Met Thr
 130 135 140
 Lys Ser Ser Cys Asn Cys Leu Cys Cys Leu Pro
 145 150 155

<210> 2210

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2210

Met Thr Asp Leu Trp Thr Arg Gly Phe Pro Ala Ser Pro Leu Ile Pro
 1 5 10 15
 Ala Asp Leu Trp Ala Ser Phe His Gly Tyr Arg Arg Lys Ser Lys Val
 20 25 30
 Ser Leu Gln Ala Ala Val Pro Leu Gly Ser Gln Leu Cys Pro Ser Phe
 35 40 45
 Ser Ser Pro Gln Gly Gly Cys Pro Ile Pro Glu Pro Pro Trp Ala Pro

50 55 60
 Ala Ser Ala Gly Pro Tyr Val Cys Gly Leu Gly Phe Cys Pro Pro Val
 65 70 75 80
 Leu Val Leu Ile Cys Ser Leu Trp Phe Cys Ser Phe Phe His Pro Pro
 85 90 95
 Thr His Leu Gly Pro Ser Ser His
 100

<210> 2211

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2211

Met Ser Ser Asp Gln Ala Gln His Cys His Gln Asp Asp Lys Gly Gln
 1 5 10 15
 Gly Val Arg Ser Gln Pro Pro Pro Thr Phe Leu Ser Ser Gly Leu Arg
 20 25 30
 Arg Arg Lys Gly Pro Thr Lys Thr Pro Glu Pro Glu Ser Ser Glu Ala
 35 40 45
 Pro Gln Asp Pro Leu Asn Trp Phe Gly Ile Leu Val Pro His Ser Leu
 50 55 60
 Arg Gln Ala Gln Ala Ser Phe Arg Asp Gly Glu Trp Thr Val Leu Phe
 65 70 75 80
 Gly Ser Val Ala Leu Arg Pro Ser Ile His Arg Glu His Leu Ser Thr
 85 90 95
 Ala Ala Met Ala Gly Val Ser Leu
 100

<210> 2212

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2212

Met Arg Arg Ala Gly Ser Thr Arg Cys Ser Leu Ala Pro Gly Arg Lys
 1 5 10 15
 Ala Glu Glu Pro Gly Asn His Val Pro Ser Trp Lys Glu Ala Leu Arg
 20 25 30
 Thr Leu Leu Pro Arg Asn Pro Glu Gln Arg Leu Ala Gly Leu Gln Glu
 35 40 45
 Gln Ser Arg Val Arg Ala Val Ser Trp Gln Arg Ile Lys Tyr Pro Gly
 50 55 60
 His Ile Glu Glu Thr Cys Glu Asp Ser Asn Gly Glu Gln Phe Glu Ser
 65 70 75 80
 Glu Lys Pro Val Leu Glu Ala Arg Lys Phe Lys Ile Lys Val Leu Ala
 85 90 95
 Ser Ser Val Ser Ala Glu Asp Leu Ile Ser Leu Leu Ser Arg Trp His
 100 105 110
 Leu Val Ala Leu Pro Ser Arg Glu
 115 120

<210> 2213

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2213

Met Ser His His Ala Arg Leu Ser Leu Leu Asn Phe Arg Thr Ile Thr
 1 5 10 15
 Val Tyr Phe Tyr Phe Leu Asn Tyr His Ile Val Lys Leu Ala Leu Trp
 20 25 30
 Leu Cys Ser Phe Met Cys Phe Asp Val Cys Ile Asp Gly Cys His Asn
 35 40 45
 Gln Glu Arg Glu His Ser Pro Lys Pro Arg Asp Val His Gly Ala Ile
 50 55 60
 Leu His Ser Met Phe Leu Gly Ser His Ser Ala Pro Ser Pro Lys His
 65 70 75 80
 Gly Ala Pro Ala Cys Arg Cys His Arg Arg Gln His His Gly Leu Leu

85 90 95
 Asn Thr Val Arg His Ser Ser Ser Lys Gly
 100 105

<210> 2214

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2214

Met Tyr Ser Leu Asn Gln Ser Phe Phe Cys Pro Gln Leu Glu Ile Phe
 1 5 10 15
 Leu Ala Gln Arg Ala Val Glu Leu Ser Glu Glu Ala Asp Val Leu Ser
 20 25 30
 Val Ser Gln Phe Gln Leu Ala Pro Ala Ile Leu Gln Gly Gln Thr Lys
 35 40 45
 Glu Lys Met Val Thr Met Val Ser Val Leu Glu Asp Leu Ile Gly Lys
 50 55 60
 Leu Thr Ser Leu Gln Leu Gln His Leu Phe Met Ile Leu Ala Ser Pro
 65 70 75 80
 Arg Ser Gly Phe Pro Leu Met Gln Gly Ser Ala Ile Leu Ser Ser Ser
 85 90 95
 Ala Ser Leu Tyr Ser Ser Ser Cys Ser Met Thr Pro
 100 105

<210> 2215

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2215

Met His His Ser Trp Leu Ile His Pro Leu Leu Asp Gly His Leu Ala
 1 5 10 15
 Cys Phe Gln Val Phe Ala Val Ser Asp Thr Ala Ser Ile Asp Cys Phe

	20		25		30
Leu	Ser	Val	Ser	Glu	Pro
			Leu	Ser	Arg
			Leu	Leu	Gly
				Lys	Gln
				Cys	Pro
	35		40		45
Ser	Phe	Phe	Pro	Ser	Phe
			Trp	Ile	Gly
				Phe	Leu
				Pro	Ala
				Glu	Val
	50		55		60
Gly	Val	Trp	Phe	Gly	His
			Gly	Cys	Gly
			Ser	Thr	Trp
				Ser	Leu
				Ser	Ser
	65		70		75
					80
Gly	Leu	Ile	Gln	Arg	Gly
			Arg	Ser	Gly
			Glu	Glu	Gly
			Ser	Val	Gln
				Gly	
	85		90		95
Lys	Ser	Arg	Leu	Gly	His
			Gly	Val	Ser
			Leu	Val	Gly
				Gln	
	100		105		

<210> 2216

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2216

Met	Glu	Ile	Gln	Met	Ser	Lys	Ser	Ser	Gln	Asn	Ser	Lys	Leu	Leu	Ile
1				5					10				15		
Pro	Val	Leu	Arg	Leu	Cys	Ser	Tyr	Ser	Asp	Glu	Ser	Val	Val	Leu	Val
			20						25				30		
Arg	Gly	Leu	Ala	Arg	Arg	Pro	Val	Gly	Trp	Asn	Gly	Ala	Arg	Lys	Val
			35						40				45		
Asn	His	Lys	Leu	Leu	Val	His	Arg	Gly	Thr	Arg	Ile	Ile	Gln	Gly	Gly
			50						55				60		
Gly	Ile	Val	Leu	Ser	Thr	Gly	Gly	Ser	Gly	Asn	Arg	Val	Phe	Thr	Gly
			65						70				75		80
Lys	Met	Val	Asn	Val	Asn	Pro	Cys	Ile	Ile	Cys	Lys	Lys	Leu	Phe	Glu
					85				90				95		
Thr	Gly	His	Lys	Asn											
					100										

<210> 2217

<211> 809

<212> PRT

<213> Homo sapiens

<400> 2217

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Met Leu Tyr Pro Ala Leu Ala Lys Glu Ser Gly Tyr Ile Ala Pro Gln
  1             5             10             15
Gly Ala Cys Asn Lys Met Ala Thr Ile Asp Glu Asn Gly Asn Gln Asn
      20             25             30
Gly Ser Gly Arg Pro Gly Phe Ala Phe Cys Gln Pro Leu Glu His Asp
      35             40             45
Leu Leu Ser Pro Val Glu Lys Lys Pro Glu Ala Thr Ala Lys Tyr Val
      50             55             60
Pro Ser Lys Val His Phe Cys Ser Val Pro Glu Asn Glu Glu Asp Ala
      65             70             75             80
Ser Leu Lys Arg His Leu Thr Pro Pro Gln Gly Asn Ser Pro His Ser
      85             90             95
Asn Glu Arg Lys Ser Thr His Ser Asn Lys Pro Ser Ser His Pro His
      100            105            110
Ser Leu Lys Cys Pro Gln Ala Gln Ala Trp Gln Ala Gly Glu Asp Lys
      115            120            125
Arg Ser Ser Arg Leu Ser Glu Pro Trp Glu Gly Asp Phe Gln Glu Asp
      130            135            140
His Asn Ala Asn Leu Trp Arg Arg Leu Glu Arg Glu Gly Leu Gly Gln
      145            150            155            160
Ser Leu Ser Gly Asn Phe Gly Lys Thr Lys Ser Ala Phe Ser Ser Leu
      165            170            175
Gln Asn Ile Pro Glu Ser Leu Arg Arg His Ser Ser Leu Glu Leu Gly
      180            185            190
Arg Gly Thr Gln Glu Gly Tyr Pro Gly Gly Arg Pro Thr Cys Ala Val
      195            200            205
Asn Thr Lys Ala Glu Asp Pro Gly Arg Lys Ala Ala Pro Asp Leu Gly
      210            215            220
Ser His Leu Asp Arg Gln Val Ser Tyr Pro Arg Pro Glu Gly Arg Thr
      225            230            235            240
Gly Ala Ser Ala Ser Phe Asn Ser Thr Asp Pro Ser Pro Glu Glu Pro

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245	250	255
Pro Ala Pro Ser His Pro His Thr Ser Ser Leu Gly Arg Arg Gly Pro		
260	265	270
Gly Pro Gly Ser Ala Ser Ala Leu Gln Gly Phe Gln Tyr Gly Lys Pro		
275	280	285
His Cys Ser Val Leu Glu Lys Val Ser Lys Phe Glu Gln Arg Glu Gln		
290	295	300
Gly Ser Gln Arg Pro Ser Val Gly Gly Ser Gly Phe Gly His Asn Tyr		
305	310	315
Arg Pro His Arg Thr Val Ser Thr Ser Ser Thr Ser Gly Asn Asp Phe		
325	330	335
Glu Glu Thr Lys Ala His Ile Arg Phe Ser Glu Ser Ala Glu Pro Leu		
340	345	350
Gly Asn Gly Glu Gln His Phe Lys Asn Gly Glu Leu Lys Leu Glu Glu		
355	360	365
Ala Ser Arg Gln Pro Cys Gly Gln Gln Leu Ser Gly Gly Ala Ser Asp		
370	375	380
Ser Gly Arg Gly Pro Gln Arg Pro Asp Ala Arg Leu Leu Arg Ser Gln		
385	390	395
Ser Thr Phe Gln Leu Ser Ser Glu Pro Glu Arg Glu Pro Glu Trp Arg		
405	410	415
Asp Arg Pro Gly Ser Pro Glu Ser Pro Leu Leu Asp Ala Pro Phe Ser		
420	425	430
Arg Ala Tyr Arg Asn Ser Ile Lys Asp Ala Gln Ser Arg Val Leu Gly		
435	440	445
Ala Thr Ser Phe Arg Arg Arg Asp Leu Glu Leu Gly Ala Pro Val Ala		
450	455	460
Ser Arg Ser Trp Arg Pro Arg Pro Ser Ser Ala His Val Gly Leu Arg		
465	470	475
Ser Pro Glu Ala Ser Ala Ser Ala Ser Pro His Thr Pro Arg Glu Trp		
485	490	495
His Ser Val Thr Pro Ala Glu Gly Asp Leu Ala Arg Pro Val Pro Pro		
500	505	510
Ala Ala Arg Arg Gly Ala Arg Arg Arg Leu Thr Pro Glu Gln Lys Lys		
515	520	525

Arg Ser Tyr Ser Glu Pro Glu Lys Met Asn Glu Val Gly Ile Val Glu
 530 535 540
 Glu Ala Glu Pro Ala Pro Leu Gly Pro Gln Arg Asn Gly Met Arg Phe
 545 550 555 560
 Pro Glu Ser Ser Val Ala Asp Arg Arg Arg Leu Phe Glu Arg Asp Gly
 565 570 575
 Lys Ala Cys Ser Thr Leu Ser Leu Ser Gly Pro Glu Leu Lys Gln Phe
 580 585 590
 Gln Gln Ser Ala Leu Ala Asp Tyr Ile Gln Arg Lys Thr Gly Lys Arg
 595 600 605
 Pro Thr Ser Ala Ala Gly Cys Ser Leu Gln Glu Pro Gly Pro Leu Arg
 610 615 620
 Glu Arg Ala Gln Ser Ala Tyr Leu Gln Pro Gly Pro Ala Ala Leu Glu
 625 630 635 640
 Gly Ser Gly Leu Ala Ser Ala Ser Ser Leu Ser Ser Leu Arg Glu Pro
 645 650 655
 Ser Leu Gln Pro Arg Arg Glu Ala Thr Leu Leu Pro Ala Thr Val Ala
 660 665 670
 Glu Thr Gln Gln Ala Pro Arg Asp Arg Ser Ser Ser Phe Ala Gly Gly
 675 680 685
 Arg Arg Leu Gly Glu Arg Arg Arg Gly Asp Leu Leu Ser Gly Ala Asn
 690 695 700
 Gly Gly Thr Arg Gly Thr Gln Arg Gly Asp Glu Thr Pro Arg Glu Pro
 705 710 715 720
 Ser Ser Trp Gly Ala Arg Ala Gly Lys Ser Met Ser Ala Glu Asp Leu
 725 730 735
 Leu Glu Arg Ser Asp Val Leu Ala Gly Pro Val His Val Arg Ser Arg
 740 745 750
 Ser Ser Pro Ala Thr Ala Asp Lys Arg Gln Val Arg Ala Thr Ser Lys
 755 760 765
 Ser Trp Pro Arg Thr Val Pro Ser Ser Leu Glu Ala Leu Val Gly Leu
 770 775 780
 Pro Asn Pro Pro His Ser His Pro Leu Ser Gln Phe Ser Phe Pro Cys
 785 790 795 800
 Asp Tyr Arg Lys Val Ala Phe Val Phe
 805

<210> 2218

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2218

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Met Val Ile Phe Gln Phe Ile Ser Cys Asp Leu Ser Ala Val Phe Asn
 1             5             10            15
Val Leu Asn Phe Phe Ile Phe Arg Asn Arg Val Ser Leu Cys Cys Pro
          20             25             30
Cys Trp Ser Gln Thr Pro Gly Leu Lys Cys Ser Cys Leu Gly Leu Pro
      35             40             45
Lys His Trp Asp Tyr Arg His Glu Pro Leu Leu Pro Gly Leu Cys Leu
      50             55             60
Met Phe Leu Thr Gly Leu Leu Leu Asn Ser Phe Asn Leu Ala Ser Leu
 65             70             75            80
Ile Pro Leu Ala Pro Val Ser Leu Leu Pro Pro Arg Glu Leu Leu Cys
          85             90            95
Pro Pro Leu Phe Pro Asn Tyr Gly His Val Ile Lys Ala Phe Phe Pro
      100            105            110
Arg Pro Leu Leu Pro Arg Cys Asp Tyr Leu His Ser Ser Asp Leu Ile
      115            120            125
Tyr Thr Pro Asp Leu Leu Gln Thr Val Phe
      130            135

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<210> 2219

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2219

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Met Leu Asn Trp Ile Ile Arg Leu Gln Ala Ile Leu Glu Ile Ile Thr
 1             5             10            15

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Asn Glu Thr Gly Arg Ala Leu Thr Val Leu Ala Trp Gln Glu Thr Gln
 20 25 30
 Met Arg Asn Ala Ile Tyr Gln Asn Arg Leu Ala Leu Asp Tyr Leu Leu
 35 40 45
 Val Ala Glu Gly Gly Val Cys Gly Lys Phe Asn Leu Thr Asn Cys Cys
 50 55 60
 Leu Gln Ile Asn Asp Gln Gly Gln Val Val Lys Asn Ile Val Arg Asp
 65 70 75 80
 Met Thr Lys Val Ala His Val Pro Val Gln Val Trp His Glu Phe Asn
 85 90 95
 Pro Glu Ser Leu Phe Glu Lys Trp Phe Pro Ala Ile Ala Gly Phe Lys
 100 105 110
 Thr Leu Ile Val Gly Gly Leu Leu Val Ile Gly Ala Cys Leu Leu Leu
 115 120 125
 Pro Cys Val Leu Pro Leu Leu Phe Gln Met Ile Lys Gly Phe Val Ala
 130 135 140
 Thr Leu Val His Gln Lys Thr Ser Ala His Val Cys Tyr Ile Asn Gln
 145 150 155 160
 Tyr Arg Ser Ile Ser Pro Ile Asp Ser Lys Ser Lys Asp Glu Ser Glu
 165 170 175
 Asn Ser His

<210> 2220

<211> 181

<212> PRT

<213> Homo sapiens

<400> 2220

Met Gln Arg Thr Gly Phe Gln Lys Pro Gln Lys Leu Glu Glu Pro His
 1 5 10 15
 Arg His Ala Leu Cys Pro Pro Thr Val Ser Gly Ala Ser Ser Asn Pro
 20 25 30
 Cys Ser Glu Thr Tyr His Gly Lys Phe Ala Asn Ser Glu Val Glu Val
 35 40 45

Lys Ser Ile Val Asp Phe Val Lys Asp His Gly Asn Ile Lys Ala Phe
 50 55 60
 Ile Ser Ile His Ser Tyr Ser Gln Leu Leu Met Tyr Pro Tyr Gly Tyr
 65 70 75 80
 Lys Thr Glu Pro Val Pro Asp Gln Asp Glu Leu Asp Leu Leu Ser Lys
 85 90 95
 Ala Ala Val Thr Ala Leu Ala Ser Leu Tyr Gly Thr Lys Phe Asn Tyr
 100 105 110
 Gly Ser Ile Ile Lys Ala Ile Tyr Gln Ala Ser Gly Ser Thr Ile Asp
 115 120 125
 Trp Thr Tyr Ser Gln Gly Ile Lys Tyr Ser Phe Thr Phe Glu Leu Arg
 130 135 140
 Asp Thr Gly Arg Tyr Gly Phe Leu Leu Pro Ala Ser Gln Ile Ile Pro
 145 150 155 160
 Thr Ala Lys Glu Thr Trp Leu Ala Leu Leu Thr Ile Met Glu His Thr
 165 170 175
 Leu Asn His Pro Tyr
 180

<210> 2221

<211> 223

<212> PRT

<213> Homo sapiens

<400> 2221

Met Gly Ala Gly Gly Gly Ser Gln His Gly Leu Arg Gln Val Ser Arg
 1 5 10 15
 Met Glu Met Gly Gly Gly Pro Ser Gly Ser Ala Met Cys Ser Glu Ala
 20 25 30
 Gly Val Gly Val Arg Thr Pro Pro Gln Gly Ala Gly Ala Gln Ser Trp
 35 40 45
 Leu Gly Ser Leu Pro Gly Cys Gly Ala Gly Ala Gly Pro Trp Ala Ala
 50 55 60
 Leu Gly Arg Arg Arg Ile Gly Arg Leu Ala Leu Trp Ala Ala Pro Arg
 65 70 75 80

Arg Ser Gly Gly Pro Arg Arg Thr Ser Glu Val Gly Gly Ser Arg Pro
 85 90 95
 His Arg Gly Met Phe Trp Arg Ser Arg Glu Gln Ser Pro Arg Ala Arg
 100 105 110
 Gly Gly Arg Gly Thr Val Gln Val Pro Gly Ala Gly Val Ser Gly Thr
 115 120 125
 Val Pro Gly Thr Arg Trp Ser Ala Val Gly Pro Cys Gly Glu Arg Arg
 130 135 140
 Pro Leu Ala Arg Gly Arg Arg Thr Glu Ala Gly Gly Glu Gly Glu Pro
 145 150 155 160
 Gly Arg Gly Thr Val Val Pro Gly Ala Ala Leu Arg Val Gly Thr Trp
 165 170 175
 Arg Ser Cys Ala Pro Trp Arg Gly Gly Gly Glu Ala Gly Glu Arg Pro
 180 185 190
 Trp Leu Leu Pro Pro Gly Val Pro Arg Val Thr Ala Ala Ala Ala Ile
 195 200 205
 Leu Pro Asn Thr Asp Pro Pro Pro Ala Pro Ala Asp Ser Gly Val
 210 215 220

<210> 2222

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2222

Met Phe Leu Thr Cys Ser Trp Gly Phe Ser Gln Gln Tyr Ser Gly His
 1 5 10 15
 Phe Pro Ser Cys Gly Ser Thr Val Cys Asn Ala Gly Leu Gln Val Ala
 20 25 30
 Glu Glu Asp Gly Ala Glu Glu Ser His Met Gly Val Cys Leu Ala Gln
 35 40 45
 Gly Gly Ser Gly Cys Ala Phe Leu Leu Pro Thr Ser Leu Thr Arg Pro
 50 55 60
 His Pro Thr Ala Arg Glu Ala Gly Glu Cys Gly Leu Asp Leu Asn Pro
 65 70 75 80

Arg Arg Arg Asn Gly Phe Leu Asn Ser Trp Pro Phe Thr Asp Thr Lys
 85 90 95
 Arg Val Lys Val Thr Cys Arg Gly Asp Glu Phe
 100 105

<210> 2223

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2223

Met Arg Gly His Ala Asp Ser Val Thr Gly Leu Ser Leu Ser Ser Glu
 1 5 10 15
 Gly Ser Tyr Leu Leu Ser Asn Ala Met Asp Asn Thr Val Arg Val Trp
 20 25 30
 Asp Val Arg Pro Phe Ala Pro Lys Glu Arg Cys Val Lys Ile Phe Gln
 35 40 45
 Gly Asn Val His Asn Phe Glu Lys Asn Leu Leu Arg Cys Ser Trp Ser
 50 55 60
 Pro Asp Gly Ser Lys Ile Ala Ala Gly Ser Ala Asp Arg Phe Val Tyr
 65 70 75 80
 Val Trp Asp Thr Thr Ser Arg Arg Ile Leu Tyr Lys Leu Pro Gly His
 85 90 95
 Ala Gly Ser Ile Asn Glu Val Ala Phe His Pro Asp Glu Pro Ile Ile
 100 105 110
 Ile Ser Ala Ser Ser Asp Lys Arg Leu Tyr Met Gly Glu Ile Gln
 115 120 125

<210> 2224

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2224

Met Arg Ala Phe Leu Pro Ser Ala Arg His Ser Gly Phe Leu Thr Cys
 1 5 10 15
 Thr Leu Thr Ala Arg Gln Asn Leu Gly Val His Lys Lys Asp Leu Arg
 20 25 30
 Trp Asp Met Glu Glu Gln Gly Pro Leu Leu Val Cys Pro Pro Ser Pro
 35 40 45
 His Leu His Ser Ser Pro Asn Leu Pro Leu Gln Ser Arg Glu Lys Thr
 50 55 60
 Ser Glu Asn Ile Arg Ser Asp Ser Thr Glu Ala Gln Thr Gly Gln Gln
 65 70 75 80
 Glu Cys Ala Gly His Trp Glu Met Trp Ser Arg Ser Ser His Ser Pro
 85 90 95
 Tyr Arg Pro Pro Thr Asn Tyr Arg Asn Ala Lys Ser Ala Gln Pro Leu
 100 105 110
 Pro Thr

<210> 2225

<211> 226

<212> PRT

<213> Homo sapiens

<400> 2225

Met Tyr Cys Cys Arg Val Thr Ser Gln Ser Leu Gln Leu Pro Tyr Gly
 1 5 10 15
 Pro Ser Val Met Val Gly Phe Ser Pro Leu Gln Lys His Gly Leu Val
 20 25 30
 Ile Ile Pro Asp Gly Thr Pro Asn Gly Asp Val Ser His Glu Pro Val
 35 40 45
 Ala Gly Ala Ile Thr Val Val Ser Gln Glu Ala Ala Gln Val Leu Glu
 50 55 60
 Ser Ala Gly Glu Gly Pro Leu Asp Val Arg Leu Arg Lys Leu Ala Gly
 65 70 75 80
 Glu Lys Glu Glu Leu Leu Ser Gln Ile Arg Lys Leu Lys Leu Gln Leu
 85 90 95

Glu Glu Glu Arg Gln Lys Cys Ser Arg Asn Asp Gly Thr Val Gly Asp
 100 105 110
 Leu Ala Gly Leu Gln Asn Gly Ser Asp Leu Gln Phe Ile Glu Met Gln
 115 120 125
 Arg Asp Ala Asn Arg Gln Ile Ser Glu Tyr Lys Phe Lys Leu Ser Lys
 130 135 140
 Ala Glu Gln Asp Ile Thr Thr Leu Glu Gln Ser Ile Ser Arg Leu Glu
 145 150 155 160
 Gly Gln Val Leu Arg Tyr Lys Thr Ala Ala Glu Asn Ala Glu Lys Val
 165 170 175
 Glu Asp Glu Leu Lys Ala Glu Lys Arg Lys Leu Gln Arg Glu Leu Arg
 180 185 190
 Thr Ala Leu Asp Lys Ile Glu Glu Met Glu Met Thr Asn Ser His Leu
 195 200 205
 Ala Lys Arg Leu Glu Lys Met Lys Ala Asn Arg Thr Ala Leu Leu Ala
 210 215 220
 Gln Gln
 225

<210> 2226

<211> 462

<212> PRT

<213> Homo sapiens

<400> 2226

Met Phe Ile Ser Asp Ala Phe Gly Glu Gly Glu Leu Thr Pro Ile Ala
 1 5 10 15
 Val Asp Thr Thr Ser Gln Arg Asn Ala Ser Pro Asn Ser Glu Pro Cys
 20 25 30
 Ser Ser Asp Ser Val Ser Glu Pro Glu Cys Thr Thr Asp Ser Ser Ser
 35 40 45
 Ser Lys Glu His Thr Ser Ser Ser Ala Ile Pro Gly Gly Val Asp Ile
 50 55 60
 Met Val Ser Glu Asp Met Lys Leu Thr Asp Ser Glu Leu Gly Lys Leu
 65 70 75 80

Ala Asn Asn Ile Gln Glu Leu Leu Tyr Ser Ala Ser Asp Ile Cys His
 85 90 95
 Asp Arg Ala Val Lys Phe Leu Met Ser Arg Ala Lys Asp Gly Phe Leu
 100 105 110
 Glu Lys Leu Asn Ser Met Glu Phe Ile Thr Leu Ser Arg Leu Met Glu
 115 120 125
 Thr Phe Ile Leu Asp Thr Glu Gln Ile Cys Gly Arg Lys Ser Thr Ser
 130 135 140
 Leu Leu Gly Ala Leu Gln Ser Gln Ala Ile Lys Phe Val Asn Arg Phe
 145 150 155 160
 His Glu Glu Arg Lys Thr Lys Leu Ser Leu Leu Leu Asp Asn Glu Arg
 165 170 175
 Trp Lys Gln Ala Asp Val Pro Ala Glu Phe Gln Asp Leu Val Asp Ser
 180 185 190
 Leu Ser Asp Gly Lys Ile Ala Leu Pro Glu Lys Lys Ser Gly Ala Thr
 195 200 205
 Glu Glu Arg Lys Pro Ala Glu Val Leu Ile Val Glu Gly Gln Gln Tyr
 210 215 220
 Ala Val Val Gly Thr Val Leu Leu Leu Ile Arg Ile Ile Leu Glu Tyr
 225 230 235 240
 Cys Gln Cys Val Asp Asn Ile Pro Ser Val Thr Thr Asp Met Leu Thr
 245 250 255
 Arg Leu Ser Asp Leu Leu Lys Tyr Phe Asn Ser Arg Ser Cys Gln Leu
 260 265 270
 Val Leu Gly Ala Gly Ala Leu Gln Val Val Gly Leu Lys Thr Ile Thr
 275 280 285
 Thr Lys Asn Leu Ala Leu Ser Ser Arg Cys Leu Gln Leu Ile Val His
 290 295 300
 Tyr Ile Pro Val Ile Arg Ala His Phe Glu Ala Arg Leu Pro Pro Lys
 305 310 315 320
 Gln Tyr Ser Met Leu Arg His Phe Asp His Ile Thr Lys Asp Tyr His
 325 330 335
 Asp His Ile Ala Glu Ile Ser Ala Lys Leu Val Ala Ile Met Asp Ser
 340 345 350
 Leu Phe Asp Lys Leu Leu Ser Lys Tyr Glu Val Lys Ala Pro Val Pro
 355 360 365

Ser Ala Cys Phe Arg Asn Ile Cys Lys Gln Met Thr Lys Met His Glu
 370 375 380
 Ala Ile Phe Asp Leu Leu Pro Glu Glu Gln Thr Gln Met Leu Phe Leu
 385 390 395 400
 Arg Ile Asn Ala Ser Tyr Lys Leu His Leu Lys Lys Gln Leu Ser His
 405 410 415
 Leu Asn Val Ile Asn Asp Gly Gly Pro Gln Asn Gly Leu Val Thr Ala
 420 425 430
 Asp Val Ala Phe Tyr Thr Gly Asn Leu Gln Ala Leu Lys Gly Leu Lys
 435 440 445
 Asp Leu Asp Leu Asn Met Ala Glu Ile Trp Glu Gln Lys Arg
 450 455 460

<210> 2227

<211> 234

<212> PRT

<213> Homo sapiens

<400> 2227

Met Arg Ala Pro Leu Cys Leu Leu Leu Val Ala His Ala Val Asp
 1 5 10 15
 Met Leu Ala Leu Asn Arg Arg Lys Lys Gln Val Gly Thr Gly Leu Gly
 20 25 30
 Gly Asn Cys Thr Gly Cys Ile Ile Cys Ser Glu Glu Asn Gly Cys Ser
 35 40 45
 Thr Cys Gln Gln Arg Leu Phe Leu Phe Ile Arg Arg Glu Gly Ile Arg
 50 55 60
 Gln Tyr Gly Lys Cys Leu His Asp Cys Pro Pro Gly Tyr Phe Gly Ile
 65 70 75 80
 Arg Gly Gln Glu Val Asn Arg Cys Lys Lys Cys Gly Ala Thr Cys Glu
 85 90 95
 Ser Cys Phe Ser Gln Asp Phe Cys Ile Arg Cys Lys Arg Gln Phe Tyr
 100 105 110
 Leu Tyr Lys Gly Lys Cys Leu Pro Thr Cys Pro Pro Gly Thr Leu Ala
 115 120 125

His Gln Asn Thr Arg Glu Cys Gln Gly Glu Cys Glu Leu Gly Pro Trp
 130 135 140
 Gly Gly Trp Ser Pro Cys Thr His Asn Gly Lys Thr Cys Gly Ser Ala
 145 150 155 160
 Trp Gly Leu Glu Ser Arg Val Arg Glu Ala Gly Arg Ala Gly His Glu
 165 170 175
 Glu Ala Ala Thr Cys Gln Val Leu Ser Glu Ser Arg Lys Cys Pro Ile
 180 185 190
 Gln Arg Pro Cys Pro Gly Glu Arg Ser Pro Gly Gln Lys Lys Gly Arg
 195 200 205
 Lys Asp Arg Arg Pro Arg Lys Asp Arg Lys Leu Asp Arg Arg Leu Asp
 210 215 220
 Val Arg Pro Arg Gln Pro Gly Leu Gln Pro
 225 230

<210> 2228

<211> 436

<212> PRT

<213> Homo sapiens

<400> 2228

Met Leu Trp Asn Phe Lys Pro His Ala Arg Ala Tyr Arg Tyr Val Gly
 1 5 10 15
 His Lys Asp Val Val Thr Ser Val Gln Phe Ser Pro His Gly Asn Leu
 20 25 30
 Leu Ala Ser Ala Ser Arg Asp Arg Thr Val Arg Leu Trp Ile Pro Asp
 35 40 45
 Lys Arg Gly Lys Phe Ser Glu Phe Lys Ala His Thr Ala Pro Val Arg
 50 55 60
 Ser Val Asp Phe Ser Ala Asp Gly Gln Phe Leu Ala Thr Ala Ser Glu
 65 70 75 80
 Asp Lys Ser Ile Lys Val Trp Ser Met Tyr Arg Gln Arg Phe Leu Tyr
 85 90 95
 Ser Leu Tyr Arg His Thr His Trp Val Arg Cys Ala Lys Phe Ser Pro
 100 105 110

Asp Gly Arg Leu Ile Val Ser Cys Ser Glu Asp Lys Thr Ile Lys Ile
 115 120 125
 Trp Asp Thr Thr Asn Lys Gln Cys Val Asn Asn Phe Ser Asp Ser Val
 130 135 140
 Gly Phe Ala Asn Phe Val Asp Phe Asn Pro Ser Gly Thr Cys Ile Ala
 145 150 155 160
 Ser Ala Gly Ser Asp Gln Thr Val Lys Val Trp Asp Val Arg Val Asn
 165 170 175
 Lys Leu Leu Gln His Tyr Gln Val His Ser Gly Gly Val Asn Cys Ile
 180 185 190
 Ser Phe His Pro Ser Gly Asn Tyr Leu Ile Thr Ala Ser Ser Asp Gly
 195 200 205
 Thr Leu Lys Ile Leu Asp Leu Leu Glu Gly Arg Leu Ile Tyr Thr Leu
 210 215 220
 Gln Gly His Thr Gly Pro Ala Phe Thr Val Ser Phe Ser Lys Gly Gly
 225 230 235 240
 Glu Leu Phe Ala Ser Gly Gly Ala Asp Thr Gln Val Leu Leu Trp Arg
 245 250 255
 Thr Asn Phe Asp Glu Leu His Cys Lys Gly Leu Thr Lys Arg Asn Leu
 260 265 270
 Lys Arg Leu His Phe Asp Ser Pro Pro His Leu Leu Asp Ile Tyr Pro
 275 280 285
 Arg Thr Pro His Pro His Glu Glu Lys Val Glu Thr Val Glu Ile Asn
 290 295 300
 Pro Lys Leu Glu Val Ile Asp Leu Gln Ile Ser Thr Pro Pro Val Met
 305 310 315 320
 Asp Ile Leu Ser Phe Asp Ser Thr Thr Thr Thr Glu Thr Ser Gly Arg
 325 330 335
 Thr Leu Pro Asp Lys Gly Glu Glu Ala Cys Gly Tyr Phe Leu Asn Pro
 340 345 350
 Ser Leu Met Ser Pro Glu Cys Leu Pro Thr Thr Thr Lys Lys Lys Thr
 355 360 365
 Glu Asp Met Ser Asp Leu Pro Cys Glu Ser Gln Arg Ser Ile Pro Leu
 370 375 380
 Ala Val Thr Asp Ala Leu Glu His Ile Met Glu Gln Leu Asn Val Leu

385 390 395 400
 Thr Gln Thr Val Ser Ile Leu Glu Gln Arg Leu Thr Leu Thr Glu Asp
 405 410 415
 Lys Leu Lys Asp Cys Leu Glu Asn Gln Gln Lys Leu Phe Ser Ala Val
 420 425 430
 Gln Gln Lys Ser
 435

<210> 2229

<211> 162

<212> PRT

<213> Homo sapiens

<400> 2229

Met Asn Ser Arg Thr Ala Ser Ala Arg Gly Trp Phe Ser Ser Arg Pro
 1 5 10 15
 Pro Thr Ser Glu Ser Asp Leu Glu Pro Ala Thr Asp Gly Pro Ala Ser
 20 25 30
 Glu Thr Thr Thr Leu Ser Pro Glu Ala Thr Thr Phe Asn Asp Thr Arg
 35 40 45
 Ile Pro Asp Ala Ala Gly Gly Thr Ala Gly Val Gly Thr Met Leu Leu
 50 55 60
 Ser Phe Gly Ile Ile Thr Val Ile Gly Leu Ala Val Ala Leu Val Leu
 65 70 75 80
 Tyr Ile Arg Lys Lys Lys Arg Leu Glu Lys Leu Arg His Gln Leu Met
 85 90 95
 Pro Met Tyr Asn Phe Asp Pro Thr Glu Glu Gln Asp Glu Leu Glu Gln
 100 105 110
 Glu Leu Leu Glu His Gly Arg Asp Ala Ala Ser Val Gln Ala Ala Thr
 115 120 125
 Ser Val Gln Ala Met Gln Gly Lys Thr Thr Leu Pro Ser Gln Gly Pro
 130 135 140
 Leu Gln Arg Pro Ser Arg Leu Val Phe Thr Asp Val Ala Asn Ala Ile
 145 150 155 160

His Val

<210> 2230

<211> 842

<212> PRT

<213> Homo sapiens

<400> 2230

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Met Glu Arg Tyr Lys Ala Leu Glu Gln Leu Leu Thr Glu Leu Asp Asp
  1             5             10             15
Phe Leu Lys Ile Leu Asp Gln Glu Asn Leu Ser Ser Thr Ala Leu Val
             20             25             30
Lys Lys Ser Cys Leu Ala Glu Leu Leu Arg Leu Tyr Thr Lys Ser Ser
             35             40             45
Ser Ser Asp Glu Glu Tyr Ile Tyr Met Asn Lys Val Thr Ile Asn Lys
             50             55             60
Gln Gln Asn Ala Glu Ser Gln Gly Lys Ala Pro Glu Glu Gln Gly Leu
             65             70             75             80
Leu Pro Asn Gly Glu Pro Ser Gln His Ser Ser Ala Pro Gln Lys Ser
             85             90             95
Leu Pro Asp Leu Pro Pro Pro Lys Met Ile Pro Glu Arg Lys Gln Leu
             100            105            110
Ala Ile Pro Lys Thr Glu Ser Pro Glu Gly Tyr Tyr Glu Glu Ala Glu
             115            120            125
Pro Tyr Asp Thr Ser Leu Asn Gly His Ser Gly Gly Phe Leu Pro Thr
             130            135            140
Gly Val Pro Arg Trp Val Gln Val Pro Glu Arg Val Ile Tyr Ala Thr
             145            150            155            160
Ile Thr Leu Glu Asp Gly Glu Ala Val Ser Ser Ser Tyr Glu Ser Tyr
             165            170            175
Asp Glu Glu Asp Gly Ser Lys Gly Lys Ser Ala Pro Tyr Gln Trp Pro
             180            185            190
Ser Pro Glu Ala Gly Ile Glu Leu Met Arg Asp Ala Arg Ile Cys Ala

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195	200	205
Phe Leu Trp Arg Lys Lys Trp Leu Gly Gln Trp Ala Lys Gln Leu Cys		
210	215	220
Val Ile Lys Asp Asn Arg Leu Leu Cys Tyr Lys Ser Ser Lys Asp His		
225	230	235
Ser Pro Gln Leu Asp Val Asn Leu Leu Gly Ser Ser Val Ile His Lys		
245	250	255
Glu Lys Gln Val Arg Lys Lys Glu His Lys Leu Lys Ile Thr Pro Met		
260	265	270
Asn Ala Asp Val Ile Val Leu Gly Leu Gln Ser Lys Asp Gln Ala Glu		
275	280	285
Gln Trp Leu Arg Val Ile Gln Glu Val Ser Gly Leu Pro Ser Glu Gly		
290	295	300
Ala Ser Glu Gly Asn Gln Tyr Thr Pro Asp Ala Gln Arg Phe Asn Cys		
305	310	315
Gln Lys Pro Asp Ile Ala Glu Lys Tyr Leu Ser Ala Ser Glu Tyr Gly		
325	330	335
Ser Ser Val Asp Gly His Pro Glu Val Pro Glu Thr Lys Asp Val Lys		
340	345	350
Lys Lys Cys Ser Ala Gly Leu Lys Leu Ser Asn Leu Met Asn Leu Gly		
355	360	365
Arg Lys Lys Ser Thr Ser Leu Glu Pro Val Glu Arg Ser Leu Glu Thr		
370	375	380
Ser Ser Tyr Leu Asn Val Leu Val Asn Ser Gln Trp Lys Ser Arg Trp		
385	390	395
Cys Ser Val Arg Asp Asn His Leu His Phe Tyr Gln Asp Arg Asn Arg		
405	410	415
Ser Lys Val Ala Gln Gln Pro Leu Ser Leu Val Gly Cys Glu Val Val		
420	425	430
Pro Asp Pro Ser Pro Asp His Leu Tyr Ser Phe Arg Ile Leu His Lys		
435	440	445
Gly Glu Glu Leu Ala Lys Leu Glu Ala Lys Ser Ser Glu Glu Met Gly		
450	455	460
His Trp Leu Gly Leu Leu Leu Ser Glu Ser Gly Ser Lys Thr Asp Pro		
465	470	475
Glu Glu Phe Thr Tyr Asp Tyr Val Asp Ala Asp Arg Val Ser Cys Ile		

485										490					495									
Val	Ser	Ala	Ala	Lys	Asn	Ser	Leu	Leu	Leu	Met	Gln	Arg	Lys	Phe	Ser									
500										505					510									
Glu	Pro	Asn	Thr	Tyr	Ile	Asp	Gly	Leu	Pro	Ser	Gln	Asp	Arg	Gln	Glu									
515										520					525									
Glu	Leu	Tyr	Asp	Asp	Val	Asp	Leu	Ser	Glu	Leu	Thr	Ala	Ala	Val	Glu									
530										535					540									
Pro	Thr	Glu	Glu	Ala	Thr	Pro	Val	Ala	Asp	Asp	Pro	Asn	Glu	Arg	Glu									
545										550					555					560				
Ser	Asp	Arg	Val	Tyr	Leu	Asp	Leu	Thr	Pro	Val	Lys	Ser	Phe	Leu	His									
565										570					575									
Gly	Pro	Ser	Ser	Ala	Gln	Ala	Gln	Ala	Ser	Ser	Pro	Thr	Leu	Ser	Cys									
580										585					590									
Leu	Asp	Asn	Ala	Thr	Glu	Ala	Leu	Pro	Ala	Asp	Ser	Gly	Pro	Gly	Pro									
595										600					605									
Thr	Pro	Asp	Glu	Pro	Cys	Ile	Lys	Cys	Pro	Glu	Asn	Leu	Gly	Glu	Gln									
610										615					620									
Gln	Leu	Glu	Ser	Leu	Glu	Pro	Glu	Asp	Pro	Ser	Leu	Arg	Ile	Thr	Thr									
625										630					635					640				
Val	Lys	Ile	Gln	Thr	Glu	Gln	Gln	Arg	Ile	Ser	Phe	Pro	Pro	Ser	Cys									
645										650					655									
Pro	Asp	Ala	Val	Val	Ala	Thr	Pro	Pro	Gly	Ala	Ser	Pro	Pro	Val	Lys									
660										665					670									
Asp	Arg	Leu	Arg	Val	Thr	Ser	Ala	Glu	Ile	Lys	Leu	Gly	Lys	Asn	Arg									
675										680					685									
Thr	Glu	Ala	Glu	Val	Lys	Arg	Tyr	Thr	Glu	Glu	Lys	Glu	Arg	Leu	Glu									
690										695					700									
Lys	Lys	Lys	Glu	Glu	Ile	Arg	Gly	His	Leu	Ala	Gln	Leu	Arg	Lys	Glu									
705										710					715					720				
Lys	Arg	Glu	Leu	Lys	Glu	Thr	Leu	Leu	Lys	Cys	Thr	Asp	Lys	Glu	Val									
725										730					735									
Leu	Ala	Ser	Leu	Glu	Gln	Lys	Leu	Lys	Glu	Ile	Asp	Glu	Glu	Cys	Arg									
740										745					750									
Gly	Glu	Glu	Ser	Arg	Arg	Val	Asp	Leu	Glu	Leu	Ser	Ile	Met	Glu	Val									
755										760					765									
Lys	Asp	Asn	Leu	Lys	Lys	Ala	Glu	Ala	Gly	Pro	Val	Thr	Leu	Gly	Thr									

770 775 780
 Thr Val Asp Thr Thr His Leu Glu Asn Pro Lys Ala Val Thr Pro Ala
 785 790 795 800
 Ser Ala Pro Asp Cys Thr Pro Val Asn Ser Ala Thr Thr Leu Lys Asn
 805 810 815
 Arg Pro Leu Ser Val Val Val Thr Gly Lys Gly Thr Val Leu Gln Lys
 820 825 830
 Ala Lys Glu Trp Glu Lys Lys Gly Ala Ser
 835 840

<210> 2231

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2231

Met Ile Ser Ala His Cys Ser Asn Leu His Phe Leu Gly Ser Ser Glu
 1 5 10 15
 Ser Pro Thr Leu Ala Ser Gln Val Gly Glu Ile Thr Gly Thr His His
 20 25 30
 His Thr Arg Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His His
 35 40 45
 Val Gly His Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Thr
 50 55 60
 Leu Ala Ser Arg Ser Ala Gly Ile Thr Gly Met Ser His Arg Ala Arg
 65 70 75 80
 Pro His Gly Ile Ser Arg Gly Glu Gln Val Thr Leu Gly Leu Pro Leu
 85 90 95
 Glu Leu Leu Glu Cys Val Ser Trp Pro Leu Cys Gly Ser Pro Leu Arg
 100 105 110
 Lys Ala Gln Ile Val Ser Thr Pro Pro Ser Pro Leu Ala Ala Leu Arg
 115 120 125
 Val Pro Val Gly Ala Glu Gly Trp Gly Gly Thr Glu Gln
 130 135 140

<210> 2232

<211> 1139

<212> PRT

<213> Homo sapiens

<400> 2232

Met Met Met Gly Thr Arg Thr Arg Arg Ala Ala Arg Leu Thr Met Met
 1 5 10 15
 Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg
 20 25 30
 Thr Arg Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg
 35 40 45
 Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg Thr Ala Trp
 50 55 60
 Leu Met Ile Met Gly Thr Arg Thr Leu Arg Thr Ala Arg Leu Met Met
 65 70 75 80
 Arg Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr
 85 90 95
 Arg Thr Arg Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr His
 100 105 110
 Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Thr Ala
 115 120 125
 Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr
 130 135 140
 Met Met Gly Thr Arg Thr Leu Arg Ala Ala Trp Leu Met Val Met Gly
 145 150 155 160
 Thr Arg Thr Arg Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr
 165 170 175
 Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr His Arg Thr
 180 185 190
 Ala Arg Leu Met Met Arg Gly Thr Arg Thr Leu Arg Ser Ala Arg Leu
 195 200 205
 Met Met Arg Gly Thr Arg Thr Leu Arg Ala Ala Arg Val Met Ile Met
 210 215 220
 Gly Thr Arg Thr Arg Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg

225 230 235 240
 Thr Leu Arg Ala Ala Gln Leu Met Met Met Gly Thr Arg Thr His Arg
 245 250 255
 Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg Thr Ala Arg
 260 265 270
 Leu Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met
 275 280 285
 Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr
 290 295 300
 Arg Thr His Arg Thr Ala Arg Leu Met Met Arg Gly Thr Arg Thr Leu
 305 310 315 320
 Arg Thr Ala Arg Leu Met Met Arg Gly Thr Arg Thr Leu Arg Ala Ala
 325 330 335
 Arg Leu Thr Ile Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr
 340 345 350
 Ile Met Gly Thr Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly
 355 360 365
 Thr Arg Thr Leu Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr
 370 375 380
 Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr His Arg Ala
 385 390 395 400
 Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu
 405 410 415
 Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met
 420 425 430
 Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg
 435 440 445
 Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg
 450 455 460
 Ala Ala Arg Leu Met Arg Gly Thr Arg Thr His Arg Thr Ala Arg Leu
 465 470 475 480
 Met Met Arg Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Thr Met Met
 485 490 495
 Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg
 500 505 510
 Thr His Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg

515	520	525
Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Thr Ala Arg		
530	535	540
Leu Thr Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met		
545	550	555
Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr		
565	570	575
Arg Thr His Arg Ala Ala Trp Leu Met Met Met Gly Thr Arg Thr Leu		
580	585	590
Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg Ala Ala		
595	600	605
Arg Leu Met Met Met Gly Ser Arg Thr Leu Arg Ala Ala Gln Leu Met		
610	615	620
Met Met Gly Thr Arg Thr His Arg Thr Ala Trp Leu Met Ile Met Gly		
625	630	635
Thr Arg Thr Leu Arg Thr Ala Arg Leu Met Met Arg Gly Thr Arg Thr		
645	650	655
Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr Arg Arg Ala		
660	665	670
Ala Arg Leu Met Ile Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu		
675	680	685
Thr Ile Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Met Met Met		
690	695	700
Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Thr Ile Met Gly Thr Arg		
705	710	715
Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg		
725	730	735
Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg		
740	745	750
Leu Met Met Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Met Met		
755	760	765
Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr		
770	775	780
Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu		
785	790	795
Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg Thr Ala		

	805	810	815
Arg Leu Met Met Arg Gly Thr Arg Thr Leu Arg Thr Ala Arg Leu Met			
820	825	830	
Met Arg Gly Thr Arg Thr Arg Arg Ala Ala Arg Leu Thr Ile Met Gly			
835	840	845	
Thr Arg Thr Arg Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr			
850	855	860	
His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg Ala			
865	870	875	880
Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Thr Ala Arg Leu			
885	890	895	
Thr Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met			
900	905	910	
Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg			
915	920	925	
Thr His Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Leu Arg			
930	935	940	
Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Arg Arg Ala Ala Arg			
945	950	955	960
Leu Met Met Met Gly Ser Arg Thr Leu Arg Ala Ala Arg Leu Met Met			
965	970	975	
Met Gly Thr Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr			
980	985	990	
Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu			
995	1000	1005	
Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Ala Ala			
1010	1015	1020	
Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr			
1025	1030	1035	1040
Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Thr Met Met Gly			
1045	1050	1055	
Thr Arg Thr His Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr			
1060	1065	1070	
Leu Arg Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr Asp Arg Thr			
1075	1080	1085	
Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu			

1090	1095	1100
Met Met Met Gly Thr Arg Thr Leu Arg Thr Ala Arg Leu Met Ile Met		
1105	1110	1115
Gly Thr Arg Thr Leu Arg Ala Ala Arg Ser Thr Val Ala Glu Thr Arg		
	1125	1130
Pro Gly Ala		1135

<210> 2233

<211> 194

<212> PRT

<213> Homo sapiens

<400> 2233

Met Asp Leu Val Gly Gly Pro His Leu Ala Leu Ser Pro Ala Ser Gln
1 5 10 15
Pro Ala Leu Phe Ile Cys Ser Ala Val Phe Val Ser Pro Trp His Ser
20 25 30
Leu Phe Arg Leu Trp Asn Ile Tyr Glu Met Ser Gln Phe Leu Lys Ile
35 40 45
Ile Glu Asn Lys Trp Phe Ala Leu Gly Ala Glu Gly Arg Gly Ser Gln
50 55 60
Gly Arg Arg Gln Val Pro Gly Gln Phe Trp Gly Arg Ile Leu Ala Tyr
65 70 75 80
Pro Leu Leu Cys Phe Phe Ile Leu Leu Pro Trp Glu Pro Lys Gly Phe
85 90 95
Gln Trp Asp Phe Leu Pro Arg Phe Leu Gln Tyr Tyr Asp Met Glu Arg
100 105 110
Leu Glu His Ser Thr Ile His Phe Leu Ile Leu Thr Ser Thr Ile Ile
115 120 125
Ser Ser Ile Pro Asn Ser Gly Ser Tyr Pro Leu Ser Ser Ser Tyr Ser
130 135 140
Leu Ile Gln Leu Ile Asn Leu Gly Met Val Val Ser Gly Leu Ala Pro
145 150 155 160
Gly Pro Phe Cys Leu Leu Cys Leu Gln His Pro Leu Tyr Leu Leu Val

165 170 175
 Asn Ser Ser Pro Ser Lys Pro Ser Gly Tyr Val Thr Thr Ser Lys Thr
 180 185 190
 Leu Asn

<210> 2234

<211> 369

<212> PRT

<213> Homo sapiens

<400> 2234

Met Thr Gly Ser Ala Val Glu Arg Leu Val Pro Glu Pro Leu Val Gly
 1 5 10 15
 Asn Leu Ser Gly Ile Glu Lys Glu Gln Leu Asp Ala Gln Arg Val Gly
 20 25 30
 Val Ala Ala Ala Val Ala Phe Gly Ser Gly Ala Leu Met Leu Gly Met
 35 40 45
 Phe Val Leu Gln Leu Gly Val Leu Ser Thr Phe Leu Ser Glu Pro Val
 50 55 60
 Val Lys Ala Leu Thr Ser Gly Ala Ala Leu His Val Leu Leu Ser Gln
 65 70 75 80
 Leu Pro Ser Leu Leu Gly Leu Ser Leu Pro Arg Gln Ile Gly Cys Phe
 85 90 95
 Ser Leu Phe Lys Thr Leu Ala Ser Leu Leu Thr Thr Leu Pro Arg Ser
 100 105 110
 Ser Pro Ala Glu Leu Thr Ile Ser Ala Leu Ser Leu Ala Leu Leu Val
 115 120 125
 Pro Val Lys Glu Leu Asn Val Arg Phe Arg Asp Arg Leu Pro Thr Pro
 130 135 140
 Ile Pro Gly Glu Val Val Leu Val Leu Leu Ala Ser Val Leu Cys Phe
 145 150 155 160
 Thr Ser Ser Val Asp Thr Arg Tyr Gln Val Gln Ile Val Gly Leu Leu
 165 170 175
 Pro Gly Gly Phe Pro Gln Pro Leu Leu Pro Asn Leu Ala Glu Leu Pro

180	185	190
Arg Ile Leu Ala Asp Ser Leu Pro Ile Ala Leu Val Ser Phe Ala Val		
195	200	205
Ser Ala Ser Leu Ala Ser Ile His Ala Asp Lys Tyr Ser Tyr Thr Ile		
210	215	220
Asp Ser Asn Gln Glu Phe Leu Ala His Gly Ala Ser Asn Leu Ile Ser		
225	230	235
Ser Leu Phe Ser Cys Phe Pro Asn Ser Ala Thr Leu Ala Thr Thr Asn		
245	250	255
Leu Leu Val Asp Ala Gly Gly Lys Thr Gln Leu Ala Gly Leu Phe Ser		
260	265	270
Cys Thr Val Val Leu Ser Val Leu Leu Trp Leu Gly Pro Phe Phe Tyr		
275	280	285
Tyr Leu Pro Lys Ala Val Leu Ala Cys Ile Asn Ile Ser Ser Met Arg		
290	295	300
Gln Val Phe Cys Gln Met Gln Glu Leu Pro Gln Leu Trp His Ile Ser		
305	310	315
Arg Val Asp Phe Ala Val Trp Met Val Thr Trp Val Ala Val Val Thr		
325	330	335
Leu Ser Val Asp Leu Gly Leu Ala Val Gly Val Val Phe Ser Met Met		
340	345	350
Thr Val Val Cys Arg Thr Arg Ser Ser Ser Arg Ser Arg Gly Ser Ala		
355	360	365

Ser

<210> 2235

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2235

Met Ala Glu Phe Leu Asp Asp Gln Glu Thr Arg Leu Cys Asp Asn Cys

1

5

10

15

Lys Lys Glu Ile Pro Val Phe Asn Phe Thr Ile His Glu Ile His Cys
 20 25 30
 Gln Arg Asn Ile Gly Met Cys Pro Thr Cys Lys Glu Pro Phe Pro Lys
 35 40 45
 Ser Asp Met Glu Thr His Met Ala Ala Glu His Cys Gln Val Thr Cys
 50 55 60
 Lys Cys Asn Lys Lys Leu Glu Lys Arg Leu Leu Lys Lys His Glu Glu
 65 70 75 80
 Thr Glu Cys Pro Leu Arg Leu Ala Val Cys Gln His Cys Asp Leu Glu
 85 90 95
 Leu Ser Ile Leu Lys Leu Lys Glu His Glu Asp Tyr Cys Gly Ala Arg
 100 105 110
 Thr Glu Leu Cys Gly Asn Cys Gly Arg Asn Val Leu Val Lys Asp Leu
 115 120 125
 Lys Thr His Pro Glu Val Cys Gly Arg Glu Gly Glu Glu Lys Arg Asn
 130 135 140
 Glu Val Ala Ile Pro Pro Asn Ala Tyr Asp Glu Ser Trp Gly Gln Asp
 145 150 155 160
 Gly Ile Trp Ile Ala Ser Gln Leu Leu Arg Gln Ile Glu Ala Leu Asp
 165 170 175
 Pro Pro Met Arg Leu Pro Arg Arg Pro Leu Arg Ala Phe Glu Ser Asp
 180 185 190
 Val Phe His Asn Arg Thr Thr Asn Gln Arg Asn Ile Thr Ala Gln Val
 195 200 205
 Ser Ile Gln Asn Asn Leu Phe Glu Glu Gln Glu Arg Gln Glu Arg Asn
 210 215 220
 Arg Gly Gln Gln Pro Pro Lys Glu Gly Gly Glu Glu Ser Ala Asn Leu
 225 230 235 240
 Asp Phe Met Leu Ala Leu Ser Leu Gln Asn Glu Gly Gln Ala Ser Ser
 245 250 255
 Val Ala Glu Gln Asp Phe Trp Arg Ala Val Cys Glu Ala Asp Gln Ser
 260 265 270
 His Gly Gly Pro Arg Ser Leu Ser Asp Ile Arg Val Gln Leu Thr Arg
 275 280 285
 Ser Cys Cys Leu Val Asn Phe Val Arg Ser Ser Thr Gln Arg Asn Cys
 290 295 300

<210> 2236

<211> 216

<212> PRT

<213> Homo sapiens

<400> 2236

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Met Leu Lys Phe Gln Glu Ala Ala Lys Cys Val Ser Gly Ser Thr Ala
  1             5             10            15
Ile Ser Thr Tyr Pro Lys Thr Leu Ile Ala Arg Arg Tyr Val Leu Gln
      20             25            30
Gln Lys Leu Gly Ser Gly Ser Phe Gly Thr Val Tyr Leu Val Ser Asp
      35             40            45
Lys Lys Ala Lys Arg Gly Glu Glu Leu Lys Val Leu Lys Glu Ile Ser
      50             55            60
Val Gly Glu Leu Asn Pro Asn Glu Thr Val Gln Ala Asn Leu Glu Ala
      65             70            75            80
Gln Leu Leu Ser Lys Leu Asp His Pro Ala Ile Val Lys Phe His Ala
      85             90            95
Ser Phe Val Glu Gln Asp Asn Phe Cys Ile Ile Thr Glu Tyr Cys Glu
      100            105            110
Gly Arg Asp Leu Asp Asp Lys Ile Gln Glu Tyr Lys Gln Ala Gly Lys
      115            120            125
Ile Phe Pro Glu Asn Gln Ile Ile Glu Trp Phe Ile Gln Leu Leu Leu
      130            135            140
Gly Val Asp Tyr Met His Glu Arg Arg Ile Leu His Arg Asp Leu Lys
      145            150            155            160
Ser Lys Asn Val Phe Leu Lys Asn Asn Leu Leu Lys Ile Gly Asp Phe
      165            170            175
Gly Val Ser Arg Leu Leu Met Gly Ser Cys Asp Leu Ala Thr Thr Leu
      180            185            190
Thr Gly Thr Pro His Tyr Met Ser Pro Glu Ala Leu Lys His Gln Gly
      195            200            205
Tyr Asp Thr Lys Ser Asp Ile Trp
      210            215

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<210> 2237

<211> 477

<212> PRT

<213> Homo sapiens

<400> 2237

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Met Ser Val Ser Asn Leu Ser Trp Leu Lys Lys Lys Ser Gln Ser Val
  1             5             10             15
Asp Ile Asn Ala Pro Gly Phe Asn Pro Leu Ala Gly Ala Gly Lys Gln
          20             25             30
Thr Pro Gln Ala Ser Lys Pro Pro Ala Pro Lys Thr Pro Ile Ile Glu
        35             40             45
Glu Glu Gln Asn Asn Ala Ala Asn Thr Gln Lys His Pro Ser Arg Arg
        50             55             60
Ser Glu Leu Lys Arg Phe Tyr Thr Ile Asp Thr Gly Gln Lys Lys Thr
        65             70             75             80
Leu Asp Lys Lys Asp Gly Arg Arg Met Ser Phe Gln Lys Pro Lys Gly
          85             90             95
Thr Ile Glu Tyr Thr Val Glu Ser Arg Asp Ser Leu Asn Ser Ile Ala
        100            105            110
Leu Lys Phe Asp Thr Thr Pro Asn Glu Leu Val Gln Leu Asn Lys Leu
        115            120            125
Phe Ser Arg Ala Val Val Thr Gly Gln Val Leu Tyr Val Pro Asp Pro
        130            135            140
Glu Tyr Val Ser Ser Val Glu Ser Ser Pro Ser Leu Ser Pro Val Ser
        145            150            155            160
Pro Leu Ser Pro Thr Ser Ser Glu Ala Glu Phe Asp Lys Thr Thr Asn
          165            170            175
Pro Asp Val His Pro Thr Glu Ala Thr Pro Ser Ser Thr Phe Thr Gly
          180            185            190
Ile Arg Pro Ala Arg Val Val Ser Ser Thr Ser Glu Glu Glu Glu Ala
          195            200            205
Phe Thr Glu Lys Phe Leu Lys Ile Asn Cys Lys Tyr Ile Thr Ser Gly
        210            215            220

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Lys	Gly	Thr	Val	Ser	Gly	Val	Leu	Leu	Val	Thr	Pro	Asn	Asn	Ile	Met
225					230					235					240
Phe	Asp	Pro	His	Lys	Asn	Asp	Pro	Leu	Val	Gln	Glu	Asn	Gly	Cys	Glu
				245					250					255	
Glu	Tyr	Gly	Ile	Met	Cys	Pro	Met	Glu	Glu	Val	Met	Ser	Ala	Ala	Met
			260					265					270		
Tyr	Lys	Glu	Ile	Leu	Asp	Ser	Lys	Ile	Lys	Glu	Ser	Leu	Pro	Ile	Asp
	275						280					285			
Ile	Asp	Gln	Leu	Ser	Gly	Arg	Asp	Phe	Cys	His	Ser	Lys	Lys	Met	Thr
290						295					300				
Gly	Ser	Asn	Thr	Glu	Glu	Ile	Asp	Ser	Arg	Ile	Arg	Asp	Ala	Gly	Asn
305					310					315					320
Asp	Ser	Ala	Ser	Thr	Ala	Pro	Arg	Ser	Thr	Glu	Glu	Ser	Leu	Ser	Glu
			325						330				335		
Asp	Val	Phe	Thr	Glu	Ser	Glu	Leu	Ser	Pro	Ile	Arg	Glu	Glu	Leu	Val
		340						345				350			
Ser	Ser	Asp	Glu	Leu	Arg	Gln	Asp	Lys	Ser	Ser	Gly	Ala	Ser	Ser	Glu
	355						360				365				
Ser	Val	Gln	Thr	Val	Asn	Gln	Ala	Glu	Val	Glu	Ser	Leu	Thr	Val	Lys
370						375				380					
Ser	Glu	Ser	Thr	Gly	Thr	Pro	Gly	His	Leu	Arg	Ser	Asp	Thr	Glu	His
385					390					395					400
Ser	Thr	Asn	Glu	Val	Gly	Thr	Leu	Cys	His	Lys	Thr	Asp	Leu	Asn	Asn
		405							410				415		
Leu	Glu	Met	Ala	Ile	Lys	Glu	Asp	Gln	Ile	Ala	Asp	Asn	Phe	Gln	Gly
		420						425					430		
Ile	Ser	Gly	Pro	Lys	Glu	Asp	Ser	Thr	Ser	Ile	Lys	Gly	Asn	Ser	Asp
	435						440					445			
Gln	Asp	Ser	Phe	Leu	His	Glu	Asn	Ser	Leu	His	Gln	Glu	Glu	Ser	Gln
450						455					460				
Lys	Glu	Asn	Met	Pro	Cys	Gly	Glu	Thr	Ala	Glu	Phe	Lys			
465					470					475					

<210> 2238

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2238

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Met Gly Arg Gln Ser Pro Ala Asp Gly Trp Ala Leu Trp Ala Ala Thr
  1              5              10              15
Leu Cys Glu Gln Gly Val Gly Pro Ile His Phe Lys Asp Gln Ser Pro
          20              25              30
Ala Leu Gly Glu Cys Ser Trp Pro Arg Leu Gly Ile Thr Phe Arg Gly
          35              40              45
Pro Ser Asp Ser Gly Gly Ala Cys Cys Gly Leu Pro Pro Ala Ser Gly
          50              55              60
Val Ala Glu Gln Thr Pro Gly Pro Gly Pro Val Pro Phe Ser Pro Pro
          65              70              75              80
Gly Gln Thr Gln Thr Gln Thr Leu Gly Gly Trp Asn Gly Gly Gln Gly
          85              90              95
Ser Met Gly Asp Val Gly Met Lys Val Gly Ala Gly Gly Ala Gly Gly
          100              105              110
Pro Gly Thr Trp Met Gly Val Asp Arg Pro Phe Ser Leu Glu Ala Arg
          115              120              125
Ser Ala Ala Leu Ala Gly Ser Glu Ala Pro Gly Thr Thr Ser Phe Pro
          130              135              140
Asp Phe Pro Val Trp Ser Val
          145              150

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<210> 2239

<211> 456

<212> PRT

<213> Homo sapiens

<400> 2239

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Met Glu Ala Leu Gly Asp Leu Glu Gly Pro Arg Ala Pro Gly Gly Asp
  1              5              10              15
Asp Pro Ala Gly Ser Ala Gly Glu Thr Pro Gly Trp Leu Ser Arg Glu
          20              25              30

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Gln Val Phe Val Leu Ile Ser Ala Ala Ser Val Asn Leu Gly Ser Met
 35 40 45
 Met Cys Tyr Ser Ile Leu Gly Pro Phe Phe Pro Lys Glu Ala Glu Lys
 50 55 60
 Lys Gly Ala Ser Asn Thr Ile Ile Gly Met Ile Phe Gly Cys Phe Ala
 65 70 75 80
 Leu Phe Glu Leu Leu Ala Ser Leu Val Phe Gly Asn Tyr Leu Val His
 85 90 95
 Ile Gly Ala Lys Phe Met Phe Val Ala Arg Met Phe Val Ser Gly Gly
 100 105 110
 Val Thr Ile Leu Phe Gly Val Leu Asp Arg Val Pro Asp Gly Pro Val
 115 120 125
 Phe Ile Ala Met Cys Phe Leu Val Arg Val Met Asp Ala Val Ser Phe
 130 135 140
 Ala Ala Ala Met Thr Ala Ser Ser Ser Ile Leu Ala Lys Ala Phe Pro
 145 150 155 160
 Asn Asn Val Ala Thr Val Leu Gly Ser Leu Glu Thr Phe Ser Gly Leu
 165 170 175
 Gly Leu Ile Leu Gly Pro Pro Val Gly Gly Phe Leu Tyr Gln Ser Phe
 180 185 190
 Gly Tyr Glu Val Pro Phe Ile Val Leu Gly Cys Val Val Leu Leu Met
 195 200 205
 Val Pro Leu Asn Met Tyr Ile Leu Pro Asn Tyr Glu Ser Asp Pro Gly
 210 215 220

 Glu His Ser Phe Trp Lys Leu Ile Ala Leu Pro Lys Val Gly Leu Ile
 225 230 235 240
 Ala Phe Val Ile Asn Ser Leu Ser Ser Cys Phe Gly Phe Leu Asp Pro
 245 250 255
 Thr Leu Ser Leu Phe Val Leu Glu Lys Phe Asn Leu Pro Ala Gly Tyr
 260 265 270
 Val Gly Leu Val Phe Leu Gly Met Ala Leu Ser Tyr Ala Ile Ser Ser
 275 280 285
 Pro Leu Phe Gly Leu Leu Ser Asp Lys Arg Pro Pro Leu Arg Lys Trp
 290 295 300
 Leu Leu Val Phe Gly Asn Leu Ile Thr Ala Gly Cys Tyr Met Leu Leu

305 310 315 320
 Gly Pro Val Pro Ile Leu His Ile Lys Ser Gln Leu Trp Leu Leu Val
 325 330 335
 Leu Ile Leu Val Val Ser Gly Leu Ser Ala Gly Met Ser Ile Ile Pro
 340 345 350
 Thr Phe Pro Glu Ile Leu Ser Cys Ala His Glu Asn Gly Phe Glu Glu
 355 360 365
 Gly Leu Ser Thr Leu Gly Leu Val Ser Gly Leu Phe Ser Ala Met Trp
 370 375 380
 Ser Ile Gly Ala Phe Met Gly Pro Thr Leu Gly Gly Phe Leu Tyr Glu
 385 390 395 400
 Lys Ile Gly Phe Glu Trp Ala Ala Ala Ile Gln Gly Leu Trp Ala Leu
 405 410 415
 Ile Ser Gly Leu Ala Met Gly Leu Phe Tyr Leu Leu Glu Tyr Ser Arg
 420 425 430
 Arg Lys Arg Ser Lys Ser Gln Asn Ile Leu Ser Thr Glu Glu Glu Arg
 435 440 445
 Thr Thr Leu Leu Pro Asn Glu Thr
 450 455

<210> 2240

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2240

Met Val Met Val Gly Ala Thr Ser Leu Gly Ala Tyr Gly Gly Glu Arg
 1 5 10 15
 Arg Ser Trp Val Pro Ser Ala His His Leu Gly Glu Gly Leu Val Pro
 20 25 30
 Asp Pro Thr Ser Gly Phe Val Cys Gln Pro Gly Ala Phe Phe Ser Pro
 35 40 45
 Tyr Leu Leu Asp Tyr Phe Ile Thr Leu Phe Leu Pro Glu Met His Leu
 50 55 60
 Leu Leu Asp Trp Ser Arg Ser Lys Pro Cys Ser Phe Thr Glu Ala Leu

65 70 75 80
 Pro Val Gly Ile Ser Cys Arg Ile Pro Pro Ser Arg Asp Gln Ser Val .
 85 90 95
 Leu Trp Leu Phe His Lys
 100

<210> 2241

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2241

Met Ser Ala Gly Glu Pro Ala Ala Ala Pro Asn Leu Asp Glu Glu Arg
 1 5 10 15
 Asn Leu Val Ala Val Pro Ala Glu Lys Pro His Gly Ser Pro His Ile
 20 25 30
 Ser Thr Met Val Pro Gly Phe Ser His Pro His Arg Pro Arg Leu Leu
 35 40 45
 Pro Ser His Pro Arg Pro Glu Thr Gln Lys Ala Leu Asp Arg Ala Ala
 50 55 60
 Ser Ser Gly Ile Trp Thr Gly Leu Arg Tyr Leu Leu Pro Ala Pro Gln
 65 70 75 80
 Ser Ala Ile Arg His Ile His Pro Arg Gly Thr Arg Cys Ser Phe Arg
 85 90 95
 Gly Cys Leu Gln Gly Met Glu Asp Ser His Arg Arg Leu Leu Thr Ser
 100 105 110
 His Ala Gln Val Ser Pro Arg Cys His Val Gln Ser Glu Pro Phe Leu
 115 120 125
 Ala His Val Pro Val Leu Val Ala
 130 135

<210> 2242

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2242

```

Met Gly Leu Arg Pro Pro Gly Asn Asn His Arg Ala Cys Ser Ser Ala
  1              5              10              15
Pro Ala Ser Pro Glu Ser His Pro Arg Asp Gln Pro His Pro Gln His
      20              25              30
Asn Cys Pro Ala Gly Glu Ala Pro Trp Ala Trp Arg Gly Phe Pro Asp
      35              40              45
Thr Ala His Pro Gly Pro Ala Ser Ser Thr Lys Thr Glu Thr Leu Ala
      50              55              60
Thr His Gly Gly Trp Gly Pro Gly Val Leu Arg Arg Gly Tyr Pro Gly
      65              70              75              80
Pro Arg Pro Glu Ile His Gln Leu His Pro Arg Gly Gly Thr Ala Asp
      85              90              95
Gly Ser Gln His Gln Gln Asp Pro Arg Ala Pro Arg Thr Glu Val Cys
      100             105             110
Pro Thr His Phe Leu Pro Thr Thr Cys Ala Pro Glu Ser Arg Ala Cys
      115             120             125
Pro Gly Arg Trp Arg Pro Gly Val Glu Cys Thr Cys Ser His Glu Val
      130             135             140
Leu Gly Val Phe
145

```

<210> 2243

<211> 539

<212> PRT

<213> Homo sapiens

<400> 2243

```

Met Arg Ile Ser Phe Lys Ala Gly Val Tyr Val Pro His Pro Thr Gly
  1              5              10              15
His Val Thr Phe Ile Thr Leu Trp Trp Asn Glu Lys Lys Gly Ile Trp
      20              25              30
Asp Met Ile Asn Ser Gly Asn Ala Ile Val Cys Leu Arg Gln Gln Arg

```


35	40	45
Asp Ser Gly Ser Arg Gly Arg Pro Arg Ala Ser Val Thr Ser Pro Asp		
50	55	60
Cys Arg Val Thr Val Ala Tyr Pro Gly Gly Ala Thr Arg Pro Ala Gly		
65	70	75
Lys Met Thr Ser Pro Ser Glu Leu Leu Gln Thr Ser Ala Arg Ser Gly		
85	90	95
Ser Trp Arg Ala Gly Gly Gly Trp Glu Thr Ser Arg Ala His Gly Thr		
100	105	110
Asp Arg Arg Gln Lys Pro Gly Gly Val Arg Trp Ala Pro Asp Pro Cys		
115	120	125
Pro Pro Ser Ser Arg Ala Ala Pro Gly Gly Pro Ala Pro Ser Val Asn		
130	135	140
Ala Ala Gly Arg Pro Ile Arg Ala Gly Arg Gly Ala Ala Gln Pro Ile		
145	150	155
Ser Gly Gln Ser Ser Arg Ala Leu Pro Arg Ser Arg Ala Leu Pro Arg		
165	170	175
Ser Arg Glu Leu Pro Ala Arg Cys Arg Arg Asp Trp Glu Arg Ala Pro		
180	185	190
Gln Arg Thr Leu Ala Arg Gly Ser Ala Gln Ser Val Cys Glu Asp Pro		
195	200	205
Ala Arg Arg Pro Pro Gly Asp Pro Met Ala Ser Glu Gly Leu Ala Gly		
210	215	220
Ala Leu Ala Ser Val Leu Ala Gly Gln Gly Ser Ser Val His Ser Cys		
225	230	235
Asp Ser Ala Pro Ala Gly Glu Pro Pro Ala Pro Val Arg Leu Arg Lys		
245	250	255
Asn Val Cys Tyr Val Val Leu Ala Val Phe Leu Ser Glu Gln Asp Glu		
260	265	270
Val Leu Leu Ile Gln Glu Ala Lys Arg Glu Cys Arg Gly Ser Trp Tyr		
275	280	285
Leu Pro Ala Gly Arg Met Glu Pro Gly Glu Thr Ile Val Glu Ala Leu		
290	295	300
Gln Arg Glu Val Lys Glu Glu Ala Gly Leu His Cys Glu Pro Glu Thr		
305	310	315
Leu Leu Ser Val Glu Glu Arg Gly Pro Ser Trp Val Arg Phe Val Phe		

	325		330		335										
Leu	Ala	Arg	Pro	Thr	Gly	Gly	Ile	Leu	Lys	Thr	Ser	Lys	Glu	Ala	Asp
	340							345					350		
Ala	Glu	Ser	Leu	Gln	Ala	Ala	Trp	Tyr	Pro	Arg	Thr	Ser	Leu	Pro	Thr
	355							360					365		
Pro	Leu	Arg	Ala	His	Asp	Ile	Leu	His	Leu	Val	Glu	Leu	Ala	Ala	Gln
	370							375					380		
Tyr	Arg	Gln	Gln	Ala	Arg	His	Pro	Leu	Ile	Leu	Pro	Gln	Glu	Leu	Pro
385					390					395				400	
Cys	Asp	Leu	Val	Cys	Gln	Arg	Leu	Val	Ala	Thr	Phe	Thr	Ser	Ala	Gln
				405					410					415	
Thr	Val	Trp	Val	Leu	Val	Gly	Thr	Val	Gly	Met	Pro	His	Leu	Pro	Val
	420							425					430		
Thr	Ala	Cys	Gly	Leu	Asp	Pro	Val	Glu	Gln	Arg	Gly	Gly	Met	Lys	Met
	435							440					445		
Ala	Val	Leu	Arg	Leu	Leu	Gln	Glu	Cys	Leu	Thr	Leu	His	His	Leu	Val
	450					455							460		
Val	Glu	Ile	Lys	Gly	Leu	Leu	Gly	Leu	Gln	His	Leu	Gly	Arg	Asp	His
465					470					475				480	
Ser	Asp	Gly	Ile	Cys	Leu	Asn	Val	Leu	Val	Thr	Val	Ala	Phe	Arg	Ser
				485						490				495	
Pro	Gly	Ile	Gln	Asp	Glu	Pro	Pro	Lys	Val	Arg	Gly	Glu	Asn	Phe	Ser
	500							505					510		
Trp	Trp	Lys	Val	Met	Glu	Glu	Asp	Leu	Gln	Ser	Gln	Leu	Leu	Gln	Arg
	515							520					525		
Leu	Gln	Gly	Ser	Ser	Val	Val	Pro	Val	Asn	Arg					
	530							535							

<210> 2244

<211> 434

<212> PRT

<213> Homo sapiens

<400> 2244

Met Glu Ala Gly Ala Gly Ala Gly Ala Gly Ala Ala Gly Trp Ser Cys

1	5	10	15
Pro Gly Pro Gly Pro Thr Val Thr Thr Leu Gly Ser Tyr Glu Ala Ser			
20	25	30	
Glu Gly Cys Glu Arg Lys Lys Gly Gln Arg Trp Gly Ser Leu Glu Arg			
35	40	45	
Arg Gly Met Gln Ala Met Glu Gly Glu Val Leu Leu Pro Ala Leu Tyr			
50	55	60	
Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Val Glu Glu Glu			
65	70	75	80
Glu Glu Gln Val Gln Lys Gly Gly Ser Val Gly Ser Leu Ser Val Asn			
85	90	95	
Lys His Arg Gly Leu Ser Leu Thr Glu Thr Glu Leu Glu Glu Leu Arg			
100	105	110	
Ala Gln Val Leu Gln Leu Val Ala Glu Leu Glu Glu Thr Arg Glu Leu			
115	120	125	
Ala Gly Gln His Glu Asp Asp Ser Leu Glu Leu Gln Gly Leu Leu Glu			
130	135	140	
Asp Glu Arg Leu Ala Ser Ala Gln Gln Ala Glu Val Phe Thr Lys Gln			
145	150	155	160
Ile Gln Gln Leu Gln Gly Glu Leu Arg Ser Leu Arg Glu Glu Ile Ser			
165	170	175	
Leu Leu Glu His Glu Lys Glu Ser Glu Leu Lys Glu Ile Glu Gln Glu			
180	185	190	
Leu His Leu Ala Gln Ala Glu Ile Gln Ser Leu Arg Gln Ala Ala Glu			
195	200	205	
Asp Ser Ala Thr Glu His Glu Ser Asp Ile Ala Ser Leu Gln Glu Asp			
210	215	220	
Leu Cys Arg Met Gln Asn Glu Leu Glu Asp Met Glu Arg Ile Arg Gly			
225	230	235	240
Asp Tyr Glu Met Glu Ile Ala Ser Leu Arg Ala Glu Met Glu Met Lys			
245	250	255	
Ser Ser Glu Pro Ser Glu Glu Leu Gln Glu Leu Arg Glu Arg Tyr His			
260	265	270	
Phe Leu Asn Glu Glu Tyr Arg Ala Leu Gln Glu Ser Asn Ser Ser Leu			
275	280	285	
Thr Gly Gln Leu Ala Asp Leu Glu Ser Glu Arg Thr Gln Arg Ala Thr			

290 295 300
 Glu Arg Trp Leu Gln Ser Gln Thr Leu Ser Met Thr.Ser Ala Glu Ser
 305 310 315 320
 Gln Thr Ser Glu Met Asp Phe Leu Glu Pro Asp Pro Glu Met Gln Leu
 325 330 335
 Leu Arg Gln Gln Leu Arg Asp Ala Glu Glu Gln Met His Gly Met Lys
 340 345 350
 Asn Lys Cys Gln Glu Leu Cys Cys Glu Leu Glu Glu Leu Gln His His
 355 360 365
 Arg Gln Val Ser Glu Glu Glu Gln Arg Arg Leu Gln Arg Glu Leu Lys
 370 375 380
 Cys Ala Gln Asn Glu Val Leu Arg Phe Gln Thr Ser His Ser Val Thr
 385 390 395 400
 Gln Ser Ser Pro Thr Pro Asn Pro Pro Ile Phe Ser Leu Pro Leu Val
 405 410 415
 Gly Leu Val Val Ile Ser Ala Leu Leu Trp Cys Trp Trp Ala Glu Thr
 420 425 430
 Ser Ser

<210> 2245

<211> 361

<212> PRT

<213> Homo sapiens

<400> 2245

Met Ser Thr Ala Arg Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val
 1 5 10 15
 Phe Gln Ile Asp Pro Ala Thr Lys Arg Asn Trp Ile Pro Ala Gly Lys
 20 25 30
 His Ala Leu Thr Val Ser Tyr Phe Tyr Asp Ala Thr Arg Asn Val Tyr
 35 40 45
 Arg Ile Ile Ser Ile Gly Gly Ala Lys Ala Ile Ile Asn Ser Thr Val
 50 55 60
 Thr Pro Asn Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp

65	70	75	80
Ala Asp Ser Arg	Ala Asn Thr Val	Tyr Gly Leu Gly	Phe Ala Ser Glu
	85	90	95
Gln His Leu Thr	Gln Phe Ala Glu	Lys Phe Gln Glu	Val Lys Glu Ala
	100	105	110
Ala Arg Leu Ala	Arg Glu Lys Ser	Gln Asp Gly Gly	Glu Leu Thr Ser
	115	120	125
Pro Ala Leu Gly	Leu Ala Ser His	Gln Val Pro Pro	Ser Pro Leu Val
	130	135	140
Ser Ala Asn Gly	Pro Gly Glu Glu	Lys Leu Phe Arg	Ser Gln Ser Ala
145	150	155	160
Asp Ala Pro Gly	Pro Thr Glu Arg	Glu Arg Leu Lys	Lys Met Leu Ser
	165	170	175
Glu Gly Ser Val	Gly Glu Val Gln	Trp Glu Ala Glu	Phe Phe Ala Leu
	180	185	190
Gln Asp Ser Asn	Asn Lys Leu Ala	Gly Ala Leu Arg	Glu Ala Asn Ala
	195	200	205
Ala Ala Ala Gln	Trp Arg Gln Gln	Leu Glu Ala Gln	Arg Ala Glu Ala
	210	215	220
Glu Arg Leu Arg	Gln Arg Val Ala	Glu Leu Glu Ala	Gln Ala Ala Ser
225	230	235	240
Glu Val Thr Pro	Thr Gly Glu Lys	Glu Gly Leu Gly	Gln Gly Gln Ser
	245	250	255
Leu Glu Gln Leu	Glu Ala Leu Val	Gln Thr Lys Asp	Gln Glu Ile Gln
	260	265	270
Thr Leu Lys Ser	Gln Thr Gly Gly	Pro Arg Glu Ala	Leu Glu Ala Ala
	275	280	285
Glu Arg Glu Glu	Thr Gln Gln Lys	Val Gln Asp Leu	Glu Thr Arg Asn
	290	295	300
Ala Glu Leu Glu	His Gln Leu Arg	Ala Met Glu Arg	Ser Leu Glu Glu
305	310	315	320
Ala Arg Ala Glu	Arg Glu Arg Ala	Arg Ala Glu Val	Gly Arg Ala Ala
	325	330	335
Gln Leu Leu Asp	Val Arg Leu Phe	Glu Leu Ser Glu	Leu Arg Glu Gly
	340	345	350
Leu Ala Arg Leu	Ala Glu Ala Ala	Pro	

355

360

<210> 2246

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2246

```

Met Ala Gly Thr Leu Leu Ser Pro Pro Ser Gly Val Pro Leu Glu Arg
  1             5             10             15
Leu Ile Arg Val Ala Thr Glu Arg Gly Tyr Thr Ala Gln Gly Glu Met
             20             25             30
Phe Ser Val Ala Asp Met Gly Arg Leu Ala Gln Glu Val Leu Gly Cys
             35             40             45
Gln Ala Lys Leu Leu Ser Gly Gly Leu Gly Gly Pro Asn Arg Asp Leu
             50             55             60
Val Leu Gln His Leu Val Thr Gly His Pro Leu Leu Ile Pro Tyr Asp
             65             70             75             80
Glu Asp Phe Asn His Glu Pro Cys Gln Arg Lys Gly His Lys Ala His
             85             90             95

Trp Ala Gly Ser Cys Trp Val Phe Gly Leu Cys Pro Val Ser Ala Thr
             100             105             110
Leu Arg Thr Leu Ser Cys Arg Ala Cys Ser Thr Gln Cys Trp Ala Arg
             115             120             125
Pro Ala Asn His His Pro Cys Gln Arg Arg Ala Pro Arg Glu Leu Ser
             130             135             140
Thr Cys Cys Pro Ser Arg Ala Arg Val Gly Thr Ile Ser Cys Gly Thr
             145             150             155             160
Thr Thr Arg Ser Gly Arg Ala Thr Cys Ser
             165             170

```

<210> 2247

<211> 317

<212> PRT

<213> Homo sapiens

<400> 2247

```

Met Arg Lys Thr Ser Asn Ser Cys Ile Met Glu Asn Gly His Gln Pro
  1             5             10             15
Gly Thr Gly Pro Gly Asp Gly Pro Pro Glu Ile Ala Gln Asn Phe Ser
      20             25             30
Ala Pro Asp Pro Pro Arg Pro Arg Pro Val Ser Leu Ser Leu Arg Leu
      35             40             45
Pro His Gln Pro Val Thr Ala Ile Thr Arg Val Ser Asp Arg Phe Ser
      50             55             60
Gly Glu Thr Ser Ala Ala Ala Leu Ser Pro Met Ser Ala Ala Thr Leu
      65             70             75             80
Gly Gly Leu Asn Pro Ser Pro Ser Glu Val Ile Thr Pro Trp Thr Pro
      85             90             95
Ser Pro Ser Glu Lys Asn Ser Ser Phe Thr Trp Ser Val Pro Ser Ser
      100            105            110
Gly Tyr Gly Ala Val Thr Ala Ser Lys His Ser Asn Ser Pro Pro Leu
      115            120            125
Val Thr Pro Pro Gln Ser Pro Val Ser Pro Gln Pro Pro Ala Ile Thr
      130            135            140
Gln Val His Arg Gln Gly Glu Arg Arg Arg Glu Leu Val Arg Ser Gln
      145            150            155            160
Thr Leu Pro Arg Thr Ser Glu Ala Gln Ala Arg Lys Ala Leu Phe Glu
      165            170            175
Lys Trp Glu Gln Glu Thr Ala Ala Gly Lys Gly Lys Gly Glu Ala Arg
      180            185            190
Ala Arg Leu Lys Arg Ser Gln Ser Phe Gly Val Ala Ser Ala Ser Ser
      195            200            205
Ile Lys Gln Ile Leu Leu Glu Trp Cys Arg Ser Lys Thr Leu Gly Tyr
      210            215            220
Gln His Val Asp Leu Gln Asn Phe Ser Ser Ser Trp Ser Asp Gly Met
      225            230            235            240
Ala Phe Cys Ala Leu Val His Ser Phe Phe Pro Asp Ala Phe Asp Tyr
      245            250            255

```

Asn Ser Leu Ser Pro Thr Gln Arg Gln Lys Asn Phe Glu Leu Ala Phe
 260 265 270
 Thr Met Ala Glu Asn Leu Ala Asn Cys Glu Arg Leu Ile Glu Val Glu
 275 280 285
 Asp Met Met Val Met Gly Arg Lys Pro Asp Pro Met Cys Val Phe Thr
 290 295 300
 Tyr Val Gln Ser Leu Tyr Asn His Leu Arg Arg Phe Glu
 305 310 315

<210> 2248

<211> 562

<212> PRT

<213> Homo sapiens

<400> 2248

Met Gly Lys Asp Gln Glu Leu Leu Glu Ala Ala Arg Thr Gly Asn Val
 1 5 10 15
 Ala Leu Val Glu Lys Leu Leu Ser Gly Arg Lys Gly Gly Ile Leu Gly
 20 25 30
 Gly Gly Ser Gly Pro Leu Pro Leu Ser Asn Leu Leu Ser Ile Trp Arg
 35 40 45
 Gly Pro Asn Val Asn Cys Thr Asp Ser Ser Gly Tyr Thr Ala Leu His
 50 55 60
 His Ala Ala Leu Asn Gly His Lys Asp Ile Val Leu Lys Leu Leu Gln
 65 70 75 80
 Tyr Glu Ala Ser Thr Asn Val Ala Asp Asn Lys Gly Tyr Phe Pro Ile
 85 90 95
 His Leu Ala Ala Trp Lys Gly Asp Val Glu Ile Val Lys Ile Leu Ile
 100 105 110
 His His Gly Pro Ser His Ser Arg Val Asn Glu Gln Asn Asn Glu Asn
 115 120 125
 Glu Thr Ala Leu His Cys Ala Ala Gln Tyr Gly His Ser Glu Val Val
 130 135 140
 Ala Val Leu Leu Glu Glu Leu Thr Asp Pro Thr Ile Arg Asn Ser Lys
 145 150 155 160

Leu Glu Thr Pro Leu Asp Leu Ala Ala Leu Tyr Gly Arg Leu Arg Val
 165 170 175
 Val Lys Met Ile Ile Ser Ala His Pro Asn Leu Met Ser Cys Asn Thr
 180 185 190
 Arg Lys His Thr Pro Leu His Leu Ala Ala Arg Asn Gly His Lys Ala
 195 200 205
 Val Val Gln Val Leu Leu Glu Ala Gly Met Asp Val Ser Cys Gln Thr
 210 215 220
 Glu Lys Gly Ser Ala Leu His Glu Ala Ala Leu Phe Gly Lys Val Asp
 225 230 235 240
 Val Val Arg Val Leu Leu Glu Thr Glu Tyr Leu Glu Gly Val Gly Arg
 245 250 255
 Ser Thr Val Pro Glu Glu Pro Val Gln Glu Asp Ala Thr Gln Glu Thr
 260 265 270
 His Ile Ser Ser Pro Val Glu Ser Pro Ser Gln Lys Thr Lys Ser Glu
 275 280 285
 Thr Val Thr Gly Glu Leu Ser Lys Leu Leu Asp Glu Ile Lys Leu Cys
 290 295 300
 Gln Glu Lys Asp Tyr Ser Phe Glu Asp Leu Cys His Thr Ile Ser Asp
 305 310 315 320
 His Tyr Leu Asp Asn Leu Ser Lys Ile Ser Glu Glu Glu Leu Gly Lys
 325 330 335
 Asn Gly Ser Gln Ser Val Arg Thr Ser Ser Thr Ile Asn Leu Ser Pro
 340 345 350
 Gly Glu Val Glu Glu Glu Asp Asp Asp Glu Asn Thr Cys Gly Pro Ser
 355 360 365
 Gly Leu Trp Glu Ala Leu Thr Pro Cys Asn Gly Cys Arg Asn Leu Gly
 370 375 380
 Phe Pro Thr Leu Ala Gln Glu Ser Tyr Pro Lys Lys Arg Asn Tyr Thr
 385 390 395 400
 Met Glu Ile Val Pro Ser Ala Ser Leu Asp Thr Phe Pro Ser Glu Asn
 405 410 415
 Glu Asn Phe Leu Cys Asp Leu Met Asp Thr Ala Val Thr Lys Lys Pro
 420 425 430
 Cys Ser Leu Glu Ile Ala Arg Ala Pro Ser Pro Arg Thr Asp Asn Ala
 435 440 445

Ser Glu Val Ala Val Thr Thr Pro Gly Thr Ser Asn His Arg Asn Ser
 450 455 460
 Ser Thr Gly Pro Thr Pro Asp Cys Ser Pro Pro Ser Pro Asp Thr Ala
 465 470 475 480
 Leu Lys Asn Ile Val Lys Val Ile Arg Pro Gln Pro Lys Gln Arg Thr
 485 490 495
 Ser Ile Val Ser Ser Leu Asp Phe His Arg Met Asn His Asn Gln Glu
 500 505 510
 Tyr Phe Glu Thr Asn Thr Ser Thr Gly Cys Thr Ser Phe Thr Ala Ser
 515 520 525
 Pro Pro Ala Ser Pro Pro Thr Ser Ser Val Gly Thr Thr Glu Val Lys
 530 535 540
 Asn Glu Gly Thr Asn His Thr Asp Asp Leu Ser Arg Gln Asp Asp Asn
 545 550 555 560
 Asp Pro

<210> 2249

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2249

Met Ser Arg Gly Gly Arg Gly Arg Lys Gly Gly Ser Leu Val Ile Val
 1 5 10 15
 Ala Lys Thr Pro Val Pro Ser Leu Thr Ser Ser Leu Gln Arg Pro Ser
 20 25 30
 Ser Cys Gly Ala Cys Trp Glu Thr Lys Val Gly Phe Arg Pro Leu Ala
 35 40 45
 Met Leu Ser Ser Pro Leu Leu Arg Ser Ala Pro Trp Leu Gln Gly Cys
 50 55 60
 Gly Gly Pro Gln Asn Gln Ala Glu Trp Glu Leu Glu Thr Val Ala Glu
 65 70 75 80
 Gly His Pro Gly Leu Leu Gly Pro Leu Gln Pro Ser Val Ser Thr Ala
 85 90 95

Leu Ser Pro Ala Gln Gln Thr Ile Val Arg Ala Leu Val Phe Arg Pro
 100 105 110
 Ser His Met Val Gly Pro Lys Arg Ala Pro Tyr Ala His Cys Leu Pro
 115 120 125
 Asp Thr Arg Lys Asn His Val Gly Ile Gly Gly Pro Arg Ala Leu Pro
 130 135 140
 Phe Leu His Pro Ser Ser
 145 150

<210> 2250

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2250

Met Ala Gly Arg Gly Arg Ala Leu Phe Pro Ala Gly Ala Leu Val Leu
 1 5 10 15
 Gly Gln Val Ser Ala Leu Ala Val Gly Ser Asn Ser Pro Ser Gly Gln
 20 25 30
 Ser Arg Asp Gly Ala Thr Leu Gln Asn Ala His Pro Gln Val Glu Ser
 35 40 45
 Trp Val Pro Arg Ala Gln Thr His Pro Ala Pro Pro Gln Thr Trp Ala
 50 55 60
 Pro Phe Phe Thr Met His Ser Ser Glu Gln Pro Cys Arg Gln Thr Trp
 65 70 75 80
 Arg Ala Ser Val Leu Ser Ser Cys Glu Gly Leu Cys Leu Gly Pro Trp
 85 90 95
 Arg His Cys Gly Ala Gly Thr Gly Arg Ala Pro Ala Asn Ile Lys Gly
 100 105 110
 Val Val Ser Met Ser Met Gln Gly Cys Leu Ile Ala Val Ser Glu Phe
 115 120 125
 Pro Thr Gly Ser Cys Arg Ala Leu Trp Glu His Thr Leu Phe
 130 135 140

<210> 2251

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2251

```

Met Asp Ala Cys Thr Arg Thr Glu His Lys Leu Ser Arg Asp Ser Pro
 1             5             10             15
Ser Asn Lys Leu Leu Tyr Ala Lys Glu Ile Ser Thr Tyr Lys Lys Met
          20             25             30
Val Glu Asp Tyr Tyr Lys Gly Ile Arg Gln Met Val Gln Val Ser Asp
          35             40             45
Gln Asp Met Asn Thr His Leu Ala Glu Ile Ser Arg Ala His Thr Asp
          50             55             60
Ser Leu Asn Thr Leu Val Ala Leu His Gln Leu Tyr Gln Tyr Thr Gln
          65             70             75             80
Lys Tyr Tyr Asp Glu Ile Ile Asn Ala Leu Glu Glu Asp Pro Ala Ala
          85             90             95
Gln Lys Met Gln Leu Ala Phe Arg Leu Gln Gln Ile Ala Ala Ala Leu
          100            105            110
Glu Asn Lys Val Thr Asp Leu
          115

```

<210> 2252

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2252

```

Met Arg Arg Ala Arg Pro Lys Gly Asp Pro Leu His Ile Pro Ser His
 1             5             10             15
Ala Ser Ala His Cys Ser Pro Gly Pro Ser Val Pro Pro Leu Ala Gly
          20             25             30
Ala Val Ser Leu Ala Trp Glu Leu Met Ala Pro Phe Cys Val Pro Thr

```

35 40 45
 Gly Ser Phe Arg Ala Arg Leu Arg Pro His His Tyr Arg His Pro Gly
 50 55 60
 Gly Thr Asp Phe Leu Leu Cys Gly Arg Leu Pro Pro Ala Val Pro Glu
 65 70 75 80
 Gln Glu Pro Gln Trp Leu Leu Arg Pro Trp Gly His Arg Arg Val Leu
 85 90 95
 Pro Ser Gly Tyr
 100

<210> 2253

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2253

Met Lys Thr Phe Ala Leu Phe Asn His Leu Arg Thr His Thr Glu Glu
 1 5 10 15
 Arg Ser Leu Asn Thr Trp Tyr Glu Glu Arg Pro Ser Arg Arg Asn Arg
 20 25 30
 Phe Leu Ser Ile Thr Lys Lys Phe Thr Val Glu Lys Thr Pro Ala Ser
 35 40 45
 Lys Glu Cys Gly Met Val Phe Ser His Leu Ser Tyr Val Arg Lys Leu
 50 55 60
 Tyr Lys Val Pro Met Gly Lys Arg His Tyr Lys Cys Ser Glu Asn Gly
 65 70 75 80
 Lys Ala Phe Ser Tyr Arg His Pro Leu Leu Arg Lys Ile Thr Arg Glu
 85 90 95
 Phe Thr Arg Glu Leu Trp Ala Thr Asn Val Gly Lys Pro Gln Leu Pro
 100 105 110
 Glu Ser

<210> 2254

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2254

```

Met Val Leu Val Leu Val Leu Val Val Met Cys Trp His Val Arg Phe
  1             5             10             15
Leu Phe Ser Phe Pro Leu Leu Ser Ala Ser Thr Phe Cys Ser Leu Arg
      20             25             30
Leu Pro Thr Glu Tyr Glu Arg Asn Gly Arg Tyr Glu Gly Ser Ser Arg
      35             40             45
Asn Val Ser Ala Glu Gln Lys Asp Glu Asn Lys Glu Ala Lys Pro Arg
      50             55             60
Ser Leu Arg Phe Thr Trp Ser Met Lys Thr Thr Ser Ser Met Asp Pro
      65             70             75             80
Gly Asp Met Met Arg Glu Ile Arg Lys Val Leu Asp Ala Asn Asn Cys
      85             90             95
Asp Tyr Glu Gln Arg Glu Arg Phe Leu Leu Phe Cys Val His Gly Asp
      100            105            110
Gly His Ala Glu Asn Leu Val Gln Trp Glu Met Glu Val Cys Lys Leu
      115            120            125
Pro Arg Leu Ser Leu Asn Gly Val Arg Phe Lys Arg Ile Ser Gly Thr
      130            135            140
Ser Ile Ala Phe Lys Asn Ile Ala Ser Lys Ile Ala Asn Glu Leu Lys
      145            150            155            160
Leu

```

<210> 2255

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2255

Met Tyr Lys Val Glu Tyr Leu Phe Thr Ser Gln Cys Ile Arg Asn Leu
 1 5 10 15
 Phe Thr Gln Ala Ile Ile Leu Lys Thr Ala Leu Gln Val Val Cys Glu
 20 25 30
 Thr Phe Pro Glu Phe Ile Ser Thr Ser Ala Leu Ser Val Ala Ser Ser
 35 40 45
 Ile Pro Glu Leu Lys Lys Arg Pro Leu Pro Thr Ala Ser Asn Pro Ala
 50 55 60
 Phe Leu Val Ile Leu Leu Phe Phe Phe Asn Phe Lys Phe Trp Asp Thr
 65 70 75 80
 Cys Ala Glu His Ala Gly Leu Leu His Arg Tyr Thr Cys Ala Tyr Val
 85 90 95
 Tyr Leu Cys Asn Met Val Val Thr Val Asn Met Val Val Tyr Cys Ile
 100 105 110
 Tyr Gln Pro Val Ile
 115

<210> 2256

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2256

Met Met Gly Arg Gly Val Arg Trp Gly Ser Arg Ala Trp Glu Arg Met
 1 5 10 15
 Ala His Ala Leu Lys Val His Glu Arg Pro Pro Leu Pro Thr Ser Ala
 20 25 30
 Glu Thr Ser Leu Asp Thr Lys Ser Val Ser Glu Gly His Leu Lys Arg
 35 40 45
 Asn Ile Val Val Lys Thr Val Glu Met Arg Asp Gly Glu Val Arg Arg
 50 55 60
 Asp Leu Gly Pro Val Arg Leu Trp Leu Ala Pro Gly Ile Leu Lys Ala
 65 70 75 80
 Arg Pro Trp Arg Lys Ala Trp Gly Trp His Ile Glu Gly Ser Gln Gln
 85 90 95

Leu Pro Val Ala Pro Gln Gly Ile Leu Glu Glu Ser Lys Glu Thr Glu
 100 105 110
 Cys Asn Ser Val Ser Ser Val Pro Pro
 115 120

<210> 2257

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2257

Met Pro Gln Ala Glu Leu Gly Ile Gln Val Cys Thr Cys Arg Leu Arg
 1 5 10 15
 Gly Ser Val Ser Arg Cys Cys Ser His Arg Glu Phe Arg Arg Gln Pro
 20 25 30
 Ser Pro Cys Ala Ala Gly Ile Gly Leu Leu His Leu Gly Ser Thr Ala
 35 40 45
 Ser Arg Gln Val Lys Pro Pro Arg Leu Pro Pro Pro Pro Trp Gly Arg
 50 55 60
 Ser Gly Glu Lys Leu Pro Phe Thr Pro Phe Pro Gly Cys Ser Leu Ser
 65 70 75 80
 Arg Trp His Ala Ser Pro Gln Thr Gln Val Ala Phe Gly Pro Arg Trp
 85 90 95
 Val Ser Leu Leu Pro Leu Pro His Thr Pro Ser Gly His Trp Asp Pro
 100 105 110
 Cys Pro Ser Asp Val Leu Gly Ser Arg Ser Gly Ala Ser His Cys Gly
 115 120 125
 Lys Arg Pro Gly Ala Trp Pro Glu Arg Gln Pro Arg Ala Gly Pro Ser
 130 135 140
 Pro Glu Ser Trp Ser Arg Ala Arg Glu Ala Pro Ile Pro Pro Arg Pro
 145 150 155 160
 Ala Ala Leu Ser Ala Val Ser Ser Ile Cys Ser Ser Phe His Pro Leu
 165 170 175
 Val Gly Pro Pro Ser Pro Phe Pro Leu Pro Leu Val Pro Ser Ala Gly
 180 185 190

Arg

<210> 2258

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2258

```

Met Val Phe Gly Phe Pro Phe Leu Ser Tyr Phe Thr Glu Asn Asn Gly
  1             5             10             15
Leu Gln Leu His Pro Ser Cys Cys Lys Arg His His Phe Val Pro Phe
             20             25             30
Tyr Gly Cys Val Val Phe His Gly Val Tyr Thr Ser Arg Phe Leu Tyr
             35             40             45
Leu Leu Ile Gly Arg Trp Ala Leu Lys Leu Ala Pro Cys Ile Cys Asn
             50             55             60
Cys Glu Leu Cys Cys Cys Lys Arg Val Cys Met Cys Leu Phe His Ile
             65             70             75             80
Val Thr Ser Phe Pro Leu Thr Arg Leu Gln Ile Ile Leu Arg Gly Tyr
             85             90             95
Ser Tyr Gln Asn Arg Val Ala Leu Val
             100             105

```

<210> 2259

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2259

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Met Leu Arg Val Pro Gly Ser Cys Cys Pro Cys Pro Arg Pro Cys Pro
  1             5             10             15
Pro Leu Ala Leu Gln Ser Pro Thr Pro Met Pro Thr Ser Gly Ser Pro
             20             25             30

```

Leu Gln Ala Leu Leu Leu Tyr Pro Leu Asp Gln Trp Cys Leu Ala Gly
 35 40 45
 Cys Ser Arg Pro Leu Leu Val Gln Pro Gln Leu Pro Lys Gly Asp Ser
 50 55 60
 Lys Pro Ser Leu Arg Ala Glu Asp Leu Leu Gly Asp Arg Lys Arg Leu
 65 70 75 80
 Gly Ser Leu Ser Gly Ala Ser Ser His Pro Cys Cys Leu Trp Ile Met
 85 90 95
 Pro Thr Ala Pro Ile Ser Phe Gln Glu Ala Leu Ala Gln His Lys Thr
 100 105 110
 Gly Ser Leu Ser Phe Leu Pro Ser Ser Ser Leu Pro Pro Ser Ser Ile
 115 120 125
 Thr Arg Thr Leu Val Thr Thr Gln Asn His Trp Val Val Pro Leu His
 130 135 140
 Pro Leu Pro Val Leu Cys His Pro Pro Ser Lys Ala Pro Ala Leu Leu
 145 150 155 160

Cys Pro Ser Thr Gln Gly Ser Leu His Ser Ala
 165 170

<210> 2260

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2260

Met Arg Asp Leu Thr Arg Gly His Val Ser Ala Ser Arg Phe Ile Val
 1 5 10 15
 Cys Leu Gly Trp Pro Leu Glu Ala Leu Asp Leu Ile Val Pro Val Trp
 20 25 30
 Lys Phe Leu Asn Ile Glu Asn Ile Ile His Met Met Thr Phe Phe Phe
 35 40 45
 Leu Ser Glu Asp Thr Leu Ile Phe Ala Ile Ala Arg Phe Arg Asn Pro
 50 55 60
 Thr Gln Thr Gly Leu Ser Lys Glu Gly Val Tyr Cys Ser Cys Ser Trp

65	70	75	80
Glu Ala Trp Thr Gly Leu Gly Pro Gly Ala Leu Thr Ser Ser Gln Leu			
	85	90	95
Gly Gln Gln Val Glu Arg Gly Leu Leu Leu Pro Ser Gly Cys His			
100	105	110	

<210> 2261

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2261

Met Asn Thr Cys Ser Gln Gly Thr Leu His Asp Gln Leu Cys Phe Arg			
1	5	10	15
Glu Gly Arg Ser Ser Pro Phe Lys Ala Arg Ile Pro Arg Arg Ser Val			
20	25	30	
His Tyr Leu Pro Ser Glu Leu Trp Ala Tyr Leu Tyr Phe Leu His Phe			
35	40	45	
Ser Arg Gln Glu Gly Gly Ser Ser Thr Glu Asn Pro Leu Ser Trp Val			
50	55	60	
Lys Glu His Ser Leu Gly Cys Leu Gly Glu Lys Ile Ser Ile Pro Arg			
65	70	75	80
Ser Cys Ser Leu Gly Val Arg Trp Glu Gln Arg Arg Gln Ser Val Gly			
85	90	95	
Pro Leu Trp Arg Gln Gln Gly Gly Val Pro Cys Gly His			
100	105		

<210> 2262

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2262

Met Arg Ala Gln Ala Asn Ser Gly Lys Phe Leu Ser Pro Arg Ala Glu

1	5	10	15
His Glu His	Leu Glu Ala Lys Gly	Ala Ala Trp Leu Leu	Pro Thr Lys
20	25	30	
Glu Thr Asp Gly	Val Gln Leu Ile Pro Met Phe	Leu Leu His Phe	Thr
35	40	45	
Pro Lys Phe Pro	Ala Arg Ser Lys Ala Ser Pro Gly	Thr Leu Val Phe	
50	55	60	
Leu Pro Lys Ala	Ser Gln Gly His Pro Ala Ile Leu Met Arg	Leu Pro	
65	70	75	80
Val Pro Ser Cys	Pro Ser Pro His Pro Arg Ile Asn His Gln Arg	Arg	
85	90	95	
Thr Val Tyr Met	Ser Ser Ser Leu Cys Leu Gly Arg Glu Thr	Asn Lys	
100	105	110	
Arg Met Arg Arg	Leu Gly Arg Pro Leu Ala Val Thr Ser Ser	Asn Cys	
115	120	125	
Pro Cys Gln Gly	Phe Met Glu Glu Glu Thr Glu Ala Ala Leu	Cys	
130	135	140	

<210> 2263

<211> 197

<212> PRT

<213> Homo sapiens

<400> 2263

Met Ala Leu Asn	Asn Phe Leu Phe Ala Gln Cys	Ala Cys Tyr Phe Leu
1	5	10
15		
Ala Phe Leu Phe	Ser Phe Val Val Val Val Pro Leu Ser	Glu Asn Gly
20	25	30
His Asp Phe Arg	Gly Arg Cys Leu Leu Phe Thr Glu Gly	Met Trp Leu
35	40	45
Ser Ala Asn Leu	Thr Val Gln Glu Arg Glu Arg Phe Thr Val	Gln Glu
50	55	60
Trp Gly Pro Pro	Ala Ala Cys Arg Phe Ser Leu Leu Ala Ser	Leu Leu
65	70	75
80		

Ser Leu Leu Leu Ala Ala Ala His Ala Trp Arg Thr Leu Phe Phe Leu
 85 90 95
 Cys Lys Gly His Glu Gly Ser Phe Phe Ser Ala Phe Leu Asn Leu Leu
 100 105 110
 Val Ser Ala Phe Val Val Phe Leu Val Phe Ile Ala Ser Thr Ile Val
 115 120 125
 Ser Val Gly Phe Thr Met Trp Cys Asp Thr Ile Thr Glu Lys Gly Thr
 130 135 140
 Val Pro His Ser Cys Glu Glu Leu Gln Asp Ile Asp Leu Glu Leu Gly
 145 150 155 160
 Val Asp Asn Ser Ala Phe Tyr Asp Gln Phe Ala Ile Ala Gln Val Gly
 165 170 175
 Gly Ser Gly Gln Glu Gly Arg Leu Ala Met Leu Gly Gly Gly His Leu
 180 185 190
 Leu Leu Asp Ile Cys
 195

<210> 2264

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2264

Met Gly Asn Val Cys Ser Pro Tyr Ser Arg Cys Leu Cys Leu Thr Leu
 1 5 10 15
 Gly Ala Cys Pro Ala Pro Phe Gln Pro Pro Leu Pro Cys Cys Ser Pro
 20 25 30
 Pro Ser Ser Gly Leu Ser Thr Asp Leu Lys Ala Pro Leu Gly Gln Ile
 35 40 45
 Pro Pro Glu Ser Leu Ser His Pro Gln Gly Thr Gln Ala Arg Pro Ser
 50 55 60
 Trp Ser Ser Trp Thr Val Leu Gln Glu Ala Ala Gln Gln Arg Leu Trp
 65 70 75 80
 Asp Gln Gln Cys Gln Thr Thr Val Phe Thr Cys Ser Pro His Gly Val
 85 90 95

Leu Met Cys Gly Trp Pro Leu Ala Ala Pro Glu Gln
 100 105

<210> 2265

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2265

Met Asn Asn Ser Ser Leu Leu Arg Pro Ser Pro Lys Ala Gln Gly Pro
 1 5 10 15
 Leu Val Ser Ala Val Cys Thr Ser Ser Val Arg Arg Gln Asp Ser Arg
 20 25 30
 Ser Met Lys Arg Ala Gly Gln Lys Thr Pro Thr Leu Ala Gly Arg His
 35 40 45
 Val Pro Leu Lys Ile Lys Lys Glu Ala Ile Trp Glu Gln Cys Ser Ser
 50 55 60
 Tyr Val Arg Pro Gly His Phe Leu Phe Thr Gly Asp Tyr Lys Thr Phe
 65 70 75 80
 Val Leu Ser Ser Leu Asp Val Asp Ala Ile Leu Gly Leu Ser Pro Pro
 85 90 95
 Ala Pro Arg His
 100

<210> 2266

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2266

Met Asn Ser Leu His Ala Gly Arg Gln Gln Ala Phe Gln Glu Asp Pro
 1 5 10 15
 Gly Pro Thr Gly Leu Gly Lys Asp Thr Ser Ala Gly Arg Arg Thr Arg
 20 25 30

Ser Thr Glu Ala Leu Gln Ser Ala Leu Ser Ala Lys Leu Ile Gly Arg
 35 40 45
 Gly Gly Gly Leu Pro Asn Gly Cys Thr Gly Thr Pro Thr Thr Cys His
 50 55 60
 Leu Pro Gly Gln Tyr Leu Gly Thr Glu Leu Ser Pro Lys Ser Lys Asn
 65 70 75 80
 Ile Ser Lys His Thr Val Glu Lys Trp Arg Leu Glu Val Thr Val His
 85 90 95
 Arg Glu Pro Ala Trp Asn Leu Trp Ala Gly Thr Arg Ala Gly Gln Phe
 100 105 110
 Gln Thr Arg Gly Ser Arg Lys Gln Thr Gln Pro Arg Pro Leu Pro Arg
 115 120 125
 Thr His Leu Leu Pro Pro Pro Thr Pro Arg Arg Pro His Gln Glu Ser
 130 135 140
 His Pro Trp Ala Pro Thr Met His Gln Thr Ala His Tyr Cys Arg Arg
 145 150 155 160
 Asn Ala Thr Arg Asp Lys Pro Pro Ala
 165

<210> 2267

<211> 482

<212> PRT

<213> Homo sapiens

<400> 2267

Met Ala Thr Gly Gly Gly Ile Arg Ala Met Thr Ser Leu Tyr Gly Gln
 1 5 10 15
 Leu Ala Gly Leu Lys Glu Leu Gly Leu Leu Asp Cys Val Ser Tyr Ile
 20 25 30
 Thr Gly Ala Ser Gly Ser Thr Trp Ala Leu Ala Asn Leu Tyr Glu Asp
 35 40 45
 Pro Glu Trp Ser Gln Lys Asp Leu Ala Gly Pro Thr Glu Leu Leu Lys
 50 55 60
 Thr Gln Val Thr Lys Asn Glu Leu Gly Val Leu Ala Pro Ser Gln Leu
 65 70 75 80

Gln Arg Tyr Arg Gln Glu Leu Ala Glu Arg Ala Arg Leu Gly Tyr Pro			
	85	90	95
Ser Cys Phe Thr Asn Leu Trp Ala Pro Ile Asn Glu Ala Leu Leu His			
	100	105	110
Asp Glu Pro His Asp His Lys Leu Ser Asp Gln Arg Glu Ala Leu Ser			
	115	120	125
His Gly Gln Asn Pro Leu Pro Ile Tyr Cys Ala Leu Asn Thr Lys Gly			
	130	135	140
Gln Ser Leu Thr Thr Phe Glu Phe Gly Glu Trp Cys Glu Phe Ser Pro			
145	150	155	160
Tyr Glu Val Gly Phe Pro Lys Tyr Gly Ala Phe Ile Pro Ser Glu Leu			
	165	170	175
Phe Gly Ser Glu Phe Phe Met Gly Gln Leu Met Lys Arg Leu Pro Glu			
	180	185	190
Ser Arg Ile Cys Phe Leu Glu Gly Ile Trp Ser Asn Leu Tyr Ala Ala			
	195	200	205
Asn Leu Gln Asp Ser Leu Tyr Trp Ala Ser Glu Pro Ser Gln Phe Trp			
	210	215	220
Asp Arg Trp Val Arg Asn Gln Ala Asn Leu Asp Lys Glu Gln Val Pro			
225	230	235	240
Leu Leu Lys Ile Glu Glu Pro Pro Ser Thr Ala Gly Arg Ile Ala Glu			
	245	250	255
Phe Phe Thr Asp Leu Leu Thr Trp Arg Pro Leu Ala Gln Ala Thr His			
	260	265	270
Asn Phe Leu Arg Gly Leu His Phe His Lys Asp Tyr Phe Gln His Pro			
	275	280	285
His Phe Ser Thr Trp Lys Ala Thr Thr Leu Asp Gly Leu Pro Asn Gln			
	290	295	300
Leu Thr Pro Ser Glu Pro His Leu Cys Leu Leu Asp Val Gly Tyr Leu			
305	310	315	320
Ile Asn Thr Ser Cys Leu Pro Leu Leu Gln Pro Thr Arg Asp Val Asp			
	325	330	335
Leu Ile Leu Ser Leu Asp Tyr Asn Leu His Gly Ala Phe Gln Gln Leu			
	340	345	350
Gln Leu Leu Gly Arg Phe Cys Gln Glu Gln Gly Ile Pro Phe Pro Pro			
	355	360	365

Ile Ser Pro Ser Pro Glu Glu Gln Leu Gln Pro Arg Glu Cys His Thr
 370 375 380
 Phe Ser Asp Pro Thr Cys Pro Gly Ala Pro Ala Val Leu His Leu Pro
 385 390 395 400
 Leu Val Ser Asp Ser Phe Arg Glu Tyr Ser Ala Pro Gly Val Arg Arg
 405 410 415
 Thr Pro Glu Glu Ala Ala Ala Gly Glu Val Asn Leu Ser Ser Ser Asp
 420 425 430
 Ser Pro Tyr His Tyr Thr Lys Val Thr Tyr Ser Gln Glu Asp Val Asp
 435 440 445
 Lys Leu Leu His Leu Thr His Tyr Asn Val Cys Asn Asn Gln Glu Gln
 450 455 460
 Leu Leu Glu Ala Leu Arg Gln Ala Val Gln Arg Arg Arg Gln Arg Arg
 465 470 475 480
 Pro His

<210> 2268

<211> 520

<212> PRT

<213> Homo sapiens

<400> 2268

Met Asn Tyr Lys Gln Lys Asp Leu Asp Asn Phe Thr Ser Lys Gly Lys
 1 5 10 15
 His Leu Leu Ser Glu Leu Lys Lys Ile His Ser Ser Asp Phe Ser Leu
 20 25 30
 Val Lys Thr Asp Met Glu Ser Thr Val Asp Lys Trp Leu Asp Val Ser
 35 40 45
 Glu Lys Leu Glu Glu Asn Met Asp Arg Leu Arg Val Ser Leu Ser Ile
 50 55 60
 Trp Asp Asp Val Leu Ser Thr Arg Asp Glu Ile Glu Gly Trp Ser Asn
 65 70 75 80
 Asn Cys Val Pro Gln Met Ala Glu Asn Ile Ser Asn Leu Asp Asn His
 85 90 95

Leu Arg Ala Glu Glu Leu Leu Lys Glu Phe Glu Ser Glu Val Lys Asn			
100	105	110	
Lys Ala Leu Arg Leu Glu Glu Leu His Ser Lys Val Asn Asp Leu Lys			
115	120	125	
Glu Leu Thr Lys Asn Leu Glu Thr Pro Pro Asp Leu Gln Phe Ile Glu			
130	135	140	
Ala Asp Leu Met Gln Lys Leu Glu His Ala Lys Glu Ile Thr Glu Val			
145	150	155	160
Ala Lys Gly Thr Leu Lys Asp Phe Thr Ala Gln Ser Thr Gln Val Glu			
165	170	175	
Lys Phe Ile Asn Asp Ile Thr Thr Trp Phe Thr Lys Val Glu Glu Ser			
180	185	190	
Leu Met Asn Cys Ala Gln Asn Glu Thr Cys Glu Ala Leu Lys Lys Val			
195	200	205	
Lys Asp Ile Gln Lys Glu Leu Gln Ser Gln Gln Ser Asn Ile Ser Ser			
210	215	220	
Thr Gln Glu Asn Leu Asn Ser Leu Cys Arg Lys Tyr His Pro Ala Glu			
225	230	235	240
Leu Glu Ser Leu Gly Arg Ala Met Thr Gly Leu Ile Lys Lys His Glu			
245	250	255	
Ala Val Ser Gln Leu Cys Ser Lys Thr Gln Ala Ser Leu Gln Glu Ser			
260	265	270	
Leu Glu Lys His Phe Ser Glu Ser Met Gln Glu Phe Gln Glu Trp Phe			
275	280	285	
Leu Gly Ala Lys Ala Ala Ala Lys Glu Ser Ser Asp Arg Thr Gly Asp			
290	295	300	
Ser Lys Val Leu Glu Ala Lys Leu His Asp Leu Gln Asn Ile Leu Asp			
305	310	315	320
Ser Val Ser Asp Gly Gln Ser Lys Leu Asp Ala Val Thr Gln Glu Gly			
325	330	335	
Gln Thr Leu Tyr Ala His Leu Ser Lys Gln Ile Val Ser Ser Ile Gln			
340	345	350	
Glu Gln Ile Thr Lys Ala Asn Glu Glu Phe Gln Ala Phe Leu Lys Gln			
355	360	365	
Cys Leu Lys Asp Lys Gln Ala Leu Gln Asp Cys Ala Ser Glu Leu Gly			
370	375	380	

Ser Phe Glu Asp Gln His Arg Lys Leu Asn Leu Trp Ile His Glu Met
 385 390 395 400
 Glu Glu Arg Phe Asn Thr Glu Asn Leu Gly Glu Ser Lys Gln His Ile
 405 410 415
 Pro Glu Lys Lys Asn Glu Val His Lys Val Glu Met Phe Leu Gly Glu
 420 425 430
 Leu Leu Ala Ala Arg Glu Ser Leu Asp Glu Leu Ser Gln Arg Gly Gln
 435 440 445
 Leu Leu Ser Glu Glu Gly His Gly Ala Gly Gln Glu Gly Arg Leu Cys
 450 455 460
 Ser Gln Leu Leu Thr Ser His Gln Asn Leu Leu Arg Met Thr Lys Glu
 465 470 475 480
 Lys Leu Arg Ser Cys Gln Val Ala Leu Gln Glu His Glu Ala Leu Glu
 485 490 495
 Glu Ala Leu Gln Ser Met Trp Phe Trp Val Lys Ala Ile Gln Asp Arg
 500 505 510
 Leu Ala Cys Ala Val Phe Thr Pro
 515 520

<210> 2269

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2269

Met Ile Val Ser Ser Gln Gln Asp Leu Val Lys Cys Val Ala Thr His
 1 5 10 15
 Pro Arg Cys Ser His Asp Ser Glu Leu Ser Gly Asp Leu Val Lys Cys
 20 25 30
 Val Glu Thr Pro Pro Cys Cys Ser His Glu Ser Glu Pro Arg Glu Thr
 35 40 45
 Trp Leu Ser Val Gln His Leu Pro Leu Ala Val Leu Ile Thr Val Ser
 50 55 60
 Cys His Glu Ile Trp Leu Phe Arg Ser Val Trp His Leu Pro Leu Cys
 65 70 75 80

Cys Ser His Asp Ser Glu Leu Ser Arg Asp Leu Val Lys His Val Ala
 85 90 95
 Ser Pro Pro Ser Leu Ser Leu Pro Pro Ala Leu Ala Met
 100 105

<210> 2270

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2270

Met Cys Pro Thr Cys Ala Leu Arg Val Val Pro Gly Leu Ala Arg Ala
 1 5 10 15
 Gln Cys Ser Ser Ser Pro Ser Ser Leu Phe Pro Pro Leu Met Lys His
 20 25 30
 Thr Ala Cys Pro Ser His Val Pro Val Gly Arg Arg Thr Leu Leu Pro
 35 40 45

 Arg Pro Glu Arg Val His Met Met Cys Ser Met His Ser Pro Cys Pro
 50 55 60
 Pro Ala Arg Pro Ala Glu Asp Lys Met Gly Gly Pro Gly Ser Leu Ser
 65 70 75 80
 Pro Asn Arg Pro Cys Pro Leu Cys Ser Arg Val Arg Trp Arg Val Phe
 85 90 95
 Leu Cys His Trp Arg Val Thr
 100

<210> 2271

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2271

Met Arg Gln Ser Leu Val Leu Ser Pro Lys Leu Glu Cys Ser Gly Thr

1	5	10	15
Ile Ser Gly His Cys Asn His Arg Leu Pro Cys Ser Asn Asn Ser Pro			
20	25	30	
Ala Ser Ala Pro Arg Val Ala Gly Ile Thr Ser Val Cys His His Ala			
35	40	45	
Gln Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe Tyr His Val Gly			
50	55	60	
Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Leu Pro Ser Ser Ala			
65	70	75	80
Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Thr Trp Pro Lys			
85	90	95	
Leu Val Tyr Ile Arg Thr Arg			
100			

<210> 2272

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2272

Met Ile Leu Gly Met Gly Leu Trp Ile Asp Pro Pro Arg Asp Glu Lys			
1	5	10	15
Ala Gly Arg Ile Cys Gln Gln Arg His Gly Ala Asp Pro Ala Arg Cys			
20	25	30	
Pro Arg Ala Val Pro Ser Ala Gln Arg Gly Ala Val His His Pro Gly			
35	40	45	
Tyr Trp Asn Pro Leu Pro Arg Ile Phe Phe Ser Pro Ser Thr Thr Ala			
50	55	60	
Glu Asn Gln Ser Ala Arg Pro Ser Pro Val Arg Cys Leu His Ser Gly			
65	70	75	80
Thr Ser Ala Leu Thr Ser Cys Lys Pro Asn Leu Thr Phe Thr Gly Ser			
85	90	95	
Lys Ile Ser Ile Ser Gly Ser Gln Trp Ser Asp Pro Thr Ser Pro Pro			
100	105	110	
Ser Gln Gly Gln Thr Thr Glu Glu Trp Ser Tyr Leu Val Phe Leu His			

115	120	125
Phe Pro Ala Lys Gly Lys Met Val Leu Pro Ala Lys Leu Ser Leu Gln		
130	135	140
Pro Gly Gly Ala Ser Ile Lys Val		
145	150	

<210> 2273

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2273

Met Ala Pro Trp Ser Tyr Phe Leu Ser Gln Thr Phe Ser His Ser Phe			
1	5	10	15
Asp Leu Ile Gln Asp Phe Lys Ile Leu Lys Ser Ser Pro Ala Lys Gly			
20	25	30	
Arg Met Gly Gly His Val Asn Asp Lys Gln Arg Arg Thr Leu Val Asn			
35	40	45	
Asp Lys Asp Arg Phe Leu Pro Val Met His Tyr Cys Asn Gln Glu Arg			
50	55	60	
Ser Pro Ala Arg Ala Asp Phe Asp Leu Cys Arg Gly Asp Trp Val Leu			
65	70	75	80
Ser Arg Glu Asn Glu Gly Thr Arg Cys Gly Gly Ser Cys Met Pro Val			
85	90	95	
Ile Pro Ala Leu Trp Glu Ala Asp Val Val Gly Ser Leu Gly Ile Gly			
100	105	110	
Ser Leu Arg Pro Ala Trp Leu Thr Phe Phe Phe Pro Ser Leu Pro Lys			
115	120	125	
Lys Thr Lys Asn Lys Asn Trp Pro Ala Ala Val Ala Arg Pro Val Val			
130	135	140	
Pro Ala Thr Arg Gly Ala Glu Val Gly Glu Leu Leu Gly Pro Gly Arg			
145	150	155	160
Arg Arg Leu Arg			

<210> 2274

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2274

```

Met Pro Leu Ser Arg Arg Ser Gly Asp Ser Pro Ala Pro Arg Ile Pro
  1             5             10             15
Gly Trp Arg Asp Ala Ser Arg Pro Arg Gly Leu Val Ala Arg Ala Gly
      20             25             30
Arg Arg Thr Arg Arg Arg Ala Leu Pro Gly Leu Ala Trp Ala Cys Ser
      35             40             45
Glu Pro Gly Cys Phe Ser Val Thr Thr Gln Ile Gly Gly Ile Trp Arg
      50             55             60
Phe Cys Gly Ser Pro Ala Ala Lys Leu Arg Gly Arg Arg Gly Leu Glu
      65             70             75             80
Ala Cys Thr Thr Cys Ser Pro Arg Pro Ser Met His Pro Gly Trp Asn
      85             90             95
Ala Val Val Gln Thr Arg Leu Ala Ala Ala Phe Thr Ser Trp Ala Gln
      100            105            110
Ala Leu Leu Pro Pro Gln Pro Cys Lys
      115            120

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<210> 2275

<211> 197

<212> PRT

<213> Homo sapiens

<400> 2275

```

Met Leu Asn Gly Thr His Gly Pro Ser Ser Glu Lys Lys Ser Asn Ile
  1             5             10             15
Pro Asp Leu Ser Ile Tyr Leu Lys Gly Glu Asp Ala Phe Asp Ala Leu
      20             25             30
Pro Pro Ser Leu Pro Pro Pro Pro Pro Pro Ala Arg His Ser Leu Ile

```

35 40 45
 Glu His Ser Lys Pro Pro Gly Ser Ser Ser Arg Pro Ser Ser Gly Gln
 50 55 60
 Asp Leu Leu Leu Leu Pro Ser Asp Pro Phe Val Asp Leu Ala Ser Gly
 65 70 75 80
 Gln Val Pro Leu Pro Pro Ala Arg Arg Leu Pro Gly Glu Asn Val Lys
 85 90 95
 Thr Asn Arg Thr Ser Gln Asp Tyr Asp Gln Leu Pro Ser Cys Ser Asp
 100 105 110
 Gly Ser Gln Ala Pro Ala Arg Pro Pro Lys Pro Arg Pro Arg Arg Thr
 115 120 125
 Ala Pro Glu Ile His His Arg Lys Pro His Gly Pro Glu Ala Ala Leu
 130 135 140
 Glu Asn Val Asp Ala Lys Ile Ala Lys Leu Met Gly Glu Gly Tyr Ala
 145 150 155 160
 Phe Glu Glu Val Lys Arg Ala Leu Glu Ile Ala Gln Asn Asn Val Glu
 165 170 175
 Val Ala Arg Ser Ile Leu Arg Glu Phe Ala Phe Pro Pro Pro Val Ser
 180 185 190
 Pro Arg Leu Asn Leu
 195

<210> 2276

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2276

Met Gln Phe Glu Phe Met Ile Glu Ser Ile Leu Tyr Ala Arg Asp Ala
 1 5 10 15
 Trp Leu Lys Glu Asp Gly Val Ile Trp Pro Thr Met Ala Ala Leu His
 20 25 30
 Leu Val Pro Cys Ser Ala Asp Lys Asp Tyr Arg Ser Lys Val Leu Phe
 35 40 45
 Trp Asp Asn Ala Tyr Glu Phe Asn Leu Ser Ala Leu Lys Ser Leu Ala

50 55 60
 Val Lys Glu Phe Phe Ser Lys Pro Lys Tyr Asn His Ile Leu Lys Pro
 65 70 75 80
 Glu Asp Cys Leu Ser Glu Pro Cys Thr Ile Leu Gln Leu Asp Met Arg
 85 90 95
 Thr Val Gln Ile Ser Asp Leu Glu Val Arg Lys Arg
 100 105

<210> 2277

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2277

Met Asp Arg Arg Lys Gly Asp Arg Thr Leu Pro Val Arg Thr Pro Thr
 1 5 10 15
 Met Ala Gly Gly Leu Phe Ser Ile Asp Arg Asn Tyr Phe Glu Glu Ile
 20 25 30
 Gly Thr Tyr Asp Ala Gly Met Asp Ile Trp Gly Gly Glu Asn Leu Glu
 35 40 45
 Met Ser Phe Arg Ile Trp Gln Cys Gly Gly Ser Leu Glu Ile Val Thr
 50 55 60
 Cys Ser His Val Gly His Val Phe Arg Lys Ala Thr Pro Tyr Thr Phe
 65 70 75 80
 Pro Gly Gly Thr Gly His Val Ile Asn Lys Asn Asn Arg Arg Leu Ala
 85 90 95
 Glu Val Trp Met Asp Glu Phe Lys Asp Phe Phe Tyr Ile Ile Ser Pro
 100 105 110
 Gly Val Val Lys Val Asp Tyr Gly Asp Val Ser Val Arg Lys Thr Leu
 115 120 125
 Arg Glu Asn Leu Lys Cys Lys Pro Phe Ser Trp Tyr Leu Glu Asn Ile
 130 135 140
 Tyr Pro Asp Ser Gln Ile Pro Arg Arg Tyr Tyr Ser Leu Gly Glu Ile
 145 150 155 160
 Arg Asn Val Glu Thr Asn Gln Cys Leu Asp Asn Met Gly Arg Lys Glu

165 170 175
 Asn Glu Lys Val Gly Ile Phe Asn Cys His Gly Met Gly Gly Asn Gln
 180 185 190
 Thr Gln Trp Thr Cys Asn His Val Lys Met Pro Pro Tyr Glu Arg Lys
 195 200 205
 Ser Val Met Gly Ile
 210

<210> 2278

<211> 352

<212> PRT

<213> Homo sapiens

<400> 2278

Met Lys Asn Trp Arg Leu Ser Ser Trp Leu Trp Ser Gly Ala Ser Pro
 1 5 10 15
 Gln Pro Trp Arg Ser Ser Lys Ala Lys Pro Arg Pro Glu Ala Pro His
 20 25 30
 Pro Gly Leu Glu Thr Thr Leu Gln Glu Arg Leu Ala Leu Tyr Gln Thr
 35 40 45
 Ala Ile Glu Ser Ala Arg Gln Ala Gly Asp Ser Ala Lys Met Arg Arg
 50 55 60
 Tyr Asp Arg Gly Leu Lys Thr Leu Glu Asn Leu Leu Ala Ser Ile Arg
 65 70 75 80
 Lys Gly Asn Ala Ile Asp Glu Ala Asp Ile Pro Pro Pro Val Ala Ile
 85 90 95
 Gly Lys Gly Pro Ala Ser Thr Pro Thr Tyr Ser Pro Ala Pro Thr Gln
 100 105 110
 Pro Ala Pro Arg Ile Ala Ser Ala Pro Glu Pro Arg Val Thr Leu Glu
 115 120 125
 Gly Pro Ser Ala Thr Ala Pro Ala Ser Ser Pro Gly Leu Ala Lys Pro
 130 135 140
 Gln Met Pro Pro Gly Pro Cys Ser Pro Gly Pro Leu Ala Gln Leu Gln
 145 150 155 160
 Ser Arg Gln Arg Asp Tyr Lys Leu Ala Ala Leu His Ala Lys Gln Gln

	165	170	175
Gly Asp Thr Thr Ala Ala Ala Arg His Phe Arg Val Ala Lys Ser Phe			
	180	185	190
Asp Ala Val Leu Glu Ala Leu Ser Arg Gly Glu Pro Val Asp Leu Ser			
	195	200	205
Cys Leu Pro Pro Pro Pro Asp Gln Leu Pro Pro Asp Pro Pro Ser Pro			
	210	215	220
Pro Ser Gln Pro Pro Thr Pro Ala Thr Ala Pro Ser Thr Thr Glu Val			
225	230	235	240
Pro Pro Pro Pro Arg Thr Leu Leu Glu Ala Leu Glu Gln Arg Met Glu			
	245	250	255
Arg Tyr Gln Val Ala Ala Ala Gln Ala Lys Ser Lys Gly Asp Gln Arg			
	260	265	270
Lys Ala Arg Met His Glu Arg Ile Val Lys Gln Tyr Gln Asp Ala Ile			
	275	280	285
Arg Ala His Lys Ala Gly Arg Ala Val Asp Val Ala Glu Leu Pro Val			
	290	295	300
Pro Pro Gly Phe Pro Pro Ile Gln Gly Leu Glu Ala Thr Lys Pro Thr			
305	310	315	320
Gln Gln Ser Leu Val Gly Val Leu Glu Thr Ala Met Lys Leu Ala Asn			
	325	330	335
Gln Asp Glu Gly Pro Glu Asp Glu Glu Asp Glu Val Pro Lys Lys Val			
	340	345	350

<210> 2279

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2279

Met Ala Arg Lys Gly Ala Arg Arg Pro Arg Gln Gly Pro Gly Ser His			
1	5	10	15
Lys Trp Leu Gln Pro Gly Ser Arg Arg Glu Lys Glu Arg Ile Pro Gln			
	20	25	30
Pro Pro Pro Pro Ala Arg Pro Pro Arg Asp Ala Ala Pro Arg Arg Val			

35 40 45
 Leu Val Pro Ala Val Arg Arg Val Pro Glu Ser Gly His Phe Ala Gly
 50 55 60
 Arg Pro Trp Ala Pro Gln Cys His Pro Lys Gly Leu Arg Arg Pro Ser
 65 70 75 80
 Ala Glu Ser His Ser Val Ala Gln Ala Gly Val Gln Cys His Asp Leu
 85 90 95
 Gly Ser Leu Gln Pro Pro Pro Pro Ser Ser Gly Asp Ser Pro Ala Ser
 100 105 110
 Ala Ser Arg Val Ala Gly Ile Thr Ser Thr Val Pro Gly Thr Leu Ser
 115 120 125
 Ala Leu Asp Asp Cys Cys Leu Ile Thr Glu Leu Pro Tyr Lys Pro Pro
 130 135 140
 Ala Val Leu Tyr
 145

<210> 2280

<211> 571

<212> PRT

<213> Homo sapiens

<400> 2280

Met Ala Pro Ser Leu Arg His Ser Val Gln Gln Phe His His His Pro
 1 5 10 15
 Ser Thr Ala Leu His Gly Glu Ser Val Ala His Ser Pro Arg Phe Ser
 20 25 30
 Pro Asn Pro Pro Gln Gln Gly Ala Val Arg Pro Gln Thr Leu Asn Phe
 35 40 45
 Ser Ser Arg Ser Gln Thr Val Pro Ser Pro Thr Ile Asn Asn Ser Gly
 50 55 60
 Gln Tyr Ser Arg Tyr Pro Tyr Ser Asn Leu Asn Gln Gly Leu Val Asn
 65 70 75 80
 Asn Thr Gly Met Asn Gln Asn Leu Gly Leu Thr Asn Asn Thr Pro Met
 85 90 95

Asn Gln Ser Val Pro Arg Tyr Pro Asn Ala Val Gly Phe Pro Ser Asn			
100	105	110	
Ser Gly Gln Gly Leu Met His Gln Gln Pro Ile His Pro Ser Gly Ser			
115	120	125	
Leu Asn Gln Met Asn Thr Gln Thr Met His Pro Ser Gln Pro Gln Gly			
130	135	140	
Thr Tyr Ala Ser Pro Pro Pro Met Ser Pro Met Lys Ala Met Ser Asn			
145	150	155	160
Pro Ala Gly Thr Pro Pro Pro Gln Val Arg Pro Gly Ser Ala Gly Ile			
165	170	175	
Pro Met Glu Val Gly Ser Tyr Pro Asn Ile Pro His Pro Gln Pro Ser			
180	185	190	
His Gln Pro Pro Gly Ala Met Gly Ile Gly Gln Arg Asn Met Gly Pro			
195	200	205	
Arg Asn Met Gln Gln Ser Arg Pro Phe Ile Gly Met Ser Ser Ala Pro			
210	215	220	
Arg Glu Leu Thr Gly His Met Arg Pro Asn Gly Cys Pro Gly Val Gly			
225	230	235	240
Leu Gly Asp Pro Gln Ala Ile Gln Glu Arg Leu Ile Pro Gly Gln Gln			
245	250	255	
His Pro Gly Gln Gln Pro Ser Phe Gln Gln Leu Pro Thr Cys Pro Pro			
260	265	270	
Leu Gln Pro His Pro Gly Leu His His Gln Ser Ser Pro Pro His Pro			
275	280	285	
His His Gln Pro Trp Ala Gln Leu His Pro Ser Pro Gln Asn Thr Pro			
290	295	300	
Gln Lys Val Pro Val His Gln His Ser Pro Ser Glu Pro Phe Leu Glu			
305	310	315	320
Lys Pro Val Pro Asp Met Thr Gln Val Ser Gly Pro Asn Ala Gln Leu			
325	330	335	
Val Lys Ser Asp Asp Tyr Leu Pro Ser Ile Glu Gln Gln Pro Gln Gln			
340	345	350	
Lys Lys Lys Lys Lys Lys Asn Asn His Ile Val Ala Glu Asp Pro Ser			
355	360	365	
Lys Gly Phe Gly Lys Asp Asp Phe Pro Gly Gly Val Asp Asn Gln Glu			
370	375	380	

Leu Asn Arg Asn Ser Leu Asp Gly Ser Gln Glu Glu Lys Lys Lys Lys
 385 390 395 400
 Lys Arg Ser Lys Ala Lys Lys Asp Pro Lys Glu Pro Lys Glu Pro Lys
 405 410 415
 Glu Lys Lys Glu Pro Lys Glu Pro Lys Thr Pro Lys Ala Pro Lys Ile
 420 425 430
 Pro Lys Glu Pro Lys Glu Lys Lys Ala Lys Thr Ala Thr Pro Lys Pro
 435 440 445
 Lys Ser Ser Lys Lys Ser Ser Asn Lys Lys Pro Asp Ser Glu Ala Ser
 450 455 460
 Ala Leu Lys Lys Lys Val Asn Lys Gly Lys Thr Glu Gly Pro Glu Asn
 465 470 475 480
 Ser Asp Leu Asp Lys Thr Pro Pro Pro Ser Pro Pro Pro Glu Glu Asp
 485 490 495
 Glu Asp Pro Gly Val Gln Lys Arg Arg Ser Ser Arg Gln Val Lys Arg
 500 505 510
 Lys Arg Tyr Thr Glu Asp Leu Glu Phe Lys Ile Ser Asp Glu Glu Ala
 515 520 525
 Asp Asp Ala Asp Ala Ala Gly Arg Asp Ser Pro Ser Asn Thr Ser Gln
 530 535 540
 Ser Glu Gln Gln Glu Ser Val Asp Ala Glu Gly Pro Val Val Glu Lys
 545 550 555 560
 Ile Met Ser Ser Arg Ser Val Lys Lys Lys Lys
 565 570

<210> 2281

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2281

Met Phe Ile Met Leu Phe Phe Leu Thr Ile Ser His Phe Leu Phe Pro
 1 5 10 15
 Ser Cys Pro Phe Phe Phe Phe Phe Phe Phe Glu Ser Glu Phe His
 20 25 30

Ser	Cys	Cys	Pro	Gly	Trp	Ile	Ser	Val	Ala	Arg	Ser	Arg	Leu	Thr	Glu
35						40						45			
Thr	Ser	Ala	Ser	Arg	Ile	Gln	Ala	Ile	Leu	Leu	Ser	Arg	Pro	Ser	Arg
50						55						60			
Trp	Leu	Gly	Leu	Gln	Ala	Cys	Ala	Thr	Met	Pro	Gly	Tyr	Leu	Val	Val
65						70						75			
Val	Val	Val	Val	Val	Leu	Leu	Val	Glu	Thr	Met	Phe	Leu	His	Phe	Gly
			85						90						
Gln	Ala	Gly	Leu	Glu	Leu	Leu	Thr	Ser	Gly	Asp	Pro	Ala	Ala	Ser	Ala
100						105						110			
Ser	Gln	Ser	Thr	Gly	Ile	Thr	Arg	Met	Arg	Asp	Arg	Ala	Gln	Pro	Pro
115						120						125			
Leu	Ser	Ile	Tyr	Ile	Leu	Gln	Leu	Leu	Lys	Leu					
130						135									

<210> 2282

<211> 133

<212> PRT

◁213▷ Homo sapiens

<400> 2282

Met	Leu	Trp	Glu	Trp	Gly	Val	Cys	Phe	Gly	Val	Ser	Asp	Lys	Phe	Pro
1					5				10					15	
Gly	Asp	Cys	Ile	Val	Gln	Pro	Gln	Ser	Arg	Thr	Ser	Thr	Pro	Gly	Ser
			20					25					30		
Leu	Leu	Ser	Pro	Thr	Val	Cys	Tyr	Gly	Ala	Leu	Ser	Val	Thr	Ser	Leu
		35					40					45			
Ile	Ala	Val	Thr	Lys	Asp	Arg	Thr	Gln	Thr	Ile	Trp	Val	Thr	Leu	Gly
	50					55					60				
Ala	Asp	Glu	Gln	Val	Pro	Gly	Arg	Lys	Gly	Leu	Gly	Ser	Glu	Asp	Leu
65					70				75					80	
Gly	Cys	Asp	Leu	Leu	Gln	Ile	Val	Ile	Gly	Leu	Ala	Leu	Ser	Thr	Trp
			85						90					95	
Glu	Gln	Arg	Glu	Leu	Glu	Ala	Ser	Pro	Ala	Cys	Leu	Gly	Trp	Lys	Ala
			100					105						110	

Gly Phe Pro Phe Ala Ala Gly Trp Leu Pro Phe Leu Thr Leu Ser Leu
 115 120 125
 Gln Ser Tyr Asn Thr
 130

<210> 2283

<211> 453

<212> PRT

<213> Homo sapiens

<400> 2283

Met Leu His Arg Asp Ser Thr Ile Ser Asn Glu Ser Ser Gln Ser Cys
 1 5 10 15
 Ser Ser Gly Arg Gln Asn Ile Arg Leu His Ser Asp Ser Ser Ser Ser
 20 25 30
 Thr Gln Val Phe Glu Ser Val Asp Glu Val Glu Gln Val Glu Ala Glu
 35 40 45
 Gly Arg Leu Glu Glu Lys Gln Pro Lys Ile Pro Asn Gly Asn Leu Val
 50 55 60
 Asn Gly Thr Cys Ser Pro Asp Ser Gly His Pro Ser Ser His Asn Phe
 65 70 75 80
 Ser Ser Gly Leu Ser Glu His Ser Glu Pro Ser Leu Ser Thr Glu Asp
 85 90 95
 Ser Val Leu Asp Ala Gln Arg Asn Thr Pro Thr Val Leu Arg Pro Arg
 100 105 110
 Asp Gly Ser Val Asp Asp Arg Gln Ser Ser Glu Ala Thr Thr Ser Gln
 115 120 125
 Asp Glu Ala Pro Arg Glu Glu Leu Ala Val Gln Asp Ser Leu Glu Ser
 130 135 140
 Asp Leu Leu Ala Asn Glu Ser Met Asp Glu Phe Met Ser Ile Thr Gly
 145 150 155 160
 Ser Leu Asp Met Ala Leu Pro Glu Lys Asp Asp Val Val Met Glu Gly
 165 170 175
 Trp Arg Ser Ser Glu Thr Glu Lys His Gly Gln Ala Asp Ser Glu Asp
 180 185 190

Asn Leu Ser Glu Glu Pro Glu Met Glu Ser Leu Phe Pro Ala Leu Ala
 195 200 205
 Ser Leu Ala Val Thr Thr Ser Ala Asn Glu Val Ser Pro Val Ser Ser
 210 215 220
 Ser Gly Val Thr Tyr Ser Pro Glu Leu Leu Asp Leu Tyr Thr Val Asn
 225 230 235 240
 Leu His Arg Ile Glu Lys Asp Val Gln Arg Cys Asp Arg Asn Tyr Trp
 245 250 255
 Tyr Phe Thr Pro Ala Asn Leu Glu Lys Leu Arg Asn Ile Met Cys Ser
 260 265 270
 Tyr Ile Trp Gln His Ile Glu Ile Gly Tyr Val Gln Gly Met Cys Asp
 275 280 285
 Leu Leu Ala Pro Leu Leu Val Ile Leu Asp Asp Glu Ala Leu Ala Phe
 290 295 300
 Ser Cys Phe Thr Glu Leu Met Lys Arg Met Asn Gln Asn Phe Pro His
 305 310 315 320
 Gly Gly Ala Met Asp Thr His Phe Ala Asn Met Arg Ser Leu Ile Gln
 325 330 335
 Ile Leu Asp Ser Glu Leu Phe Glu Leu Met His Gln Asn Gly Asp Tyr
 340 345 350
 Thr His Phe Tyr Phe Cys Tyr Arg Trp Phe Leu Leu Asp Phe Lys Arg
 355 360 365
 Glu Leu Val Tyr Asp Asp Val Phe Leu Val Trp Glu Thr Ile Trp Ala
 370 375 380
 Ala Lys His Val Ser Ser Ala His Tyr Val Leu Phe Ile Ala Leu Ala
 385 390 395 400
 Leu Val Glu Val Tyr Arg Asp Ile Ile Leu Glu Asn Asn Met Asp Phe
 405 410 415
 Thr Asp Ile Ile Lys Phe Phe Asn Glu Met Ala Glu Arg His Asn Thr
 420 425 430
 Lys Gln Val Leu Lys Leu Ala Arg Asp Leu Val Tyr Lys Val Gln Thr
 435 440 445
 Leu Ile Glu Asn Lys
 450

<210> 2284

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2284

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Met Ser Arg Gln Gly Thr Gly Ser Ser Ala Gln Gly Leu Pro Val Leu
  1             5             10             15
Leu Gly Cys Leu Pro Thr Ala Asp Ser Val Pro Leu Asp Cys Leu Leu
      20             25             30
Gln Lys Phe Leu Leu Leu Met Ala Ser Thr Ser Ala Cys Tyr Lys Leu
      35             40             45
Phe Arg Glu Lys Gln Lys Asp Gly His Gly Glu Ala Ile Met Phe Lys
      50             55             60
Gly Leu Gly Gly Met Ser Ser Lys Arg Ile Thr Ile Asn Lys Ile Leu
      65             70             75             80
Ser Asn Glu Ser Leu Val Gln Asp Asn Leu Tyr Phe Gln Arg Cys Leu
      85             90             95
Asp Trp Asn Arg Asp Ile Leu Lys Lys Glu Leu Gly Leu Thr Glu Gln
      100            105            110
Asp Ile Ile Asp Leu Pro Ala Leu Phe Lys Met Asp Glu Asp His Arg
      115            120            125
Ala Arg Ala Phe Phe Pro Asn Met Val Asn Met Ile Val Leu Asp Lys
      130            135            140
Asp Leu Gly Ile Pro Lys Pro Phe Gly Pro Gln Val Glu Glu Glu Cys
      145            150            155            160
Cys Leu Glu Met His Val Arg Gly Leu Leu Glu Pro Leu Gly Leu Glu
      165            170            175
Cys Thr Phe Ile Asp Asp Ile Ser Ala Tyr His Lys Phe Leu Gly Glu
      180            185            190
Val His Cys Gly Thr Asn Val Arg Arg Lys Pro Phe Thr Phe Lys Trp
      195            200            205
Trp His Met Val Pro
      210

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<210> 2285

<211> 191

<212> PRT

<213> Homo sapiens

<400> 2285

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Met Ala Glu Asn Lys Gly Leu Gly Tyr Pro Asp Ala Arg Phe Ser Val
  1             5             10             15
Leu Val Ser Ser Gln Leu Ala Ile Pro Met Pro Leu Leu Ser Ser Val
          20             25             30
Gly Gly His Trp Thr Trp Thr Asp Pro Trp Asp Arg Arg Ile Gln Gly
          35             40             45
Val Leu Phe Ser Phe Asp Phe Phe Tyr Leu Phe Ser Ala Arg Lys Asp
          50             55             60
Thr Asp Leu Cys Ser Trp Leu Ser Ser Lys Asn His Leu Ser Phe Val
          65             70             75             80
Pro Leu Ser Cys Lys Arg Glu Val His Phe Ile Cys Leu Phe Cys Lys
          85             90             95
Thr Leu Gly Val Cys His Gly His Ala Leu Met Met Ser Thr Cys Val
          100            105            110
Arg Pro Leu Pro Pro Trp Ser Ala Cys Met Val Leu Gln Pro Glu Thr
          115            120            125
Ala Leu Gly Glu Ile Arg Gly Ser Leu Leu Val Gly Gly Glu His Leu
          130            135            140
Pro Leu His Ala Gly Arg His Leu Met Lys Pro Gln Arg Pro Gly Ser
          145            150            155            160
Pro Cys Thr Trp Lys Glu Ser Leu Ser Ser Met Trp Gly Glu Pro Arg
          165            170            175
Trp Pro Cys Gly Ile His Val Phe Pro Pro Pro Ala Ser Pro Ala
          180            185            190

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<210> 2286

<211> 330

<212> PRT

<213> Homo sapiens

<400> 2286

Met Ala Lys Ala Asp Pro Thr Cys Asn Ser Thr Phe Leu His Leu Asp
 1 5 10 15
 Thr Gln Gly Cys Tyr Ser Gly Pro Cys Pro Glu Glu Cys Val Trp Ser
 20 25 30
 Ser Trp Ser Ser Trp Thr Arg Cys Ser Cys Arg Val Leu Val Gln Gln
 35 40 45
 Arg Tyr Arg His Gln Gly Pro Ala Ser Arg Gly Ala Arg Ala Gly Ala
 50 55 60
 Pro Cys Thr Arg Leu Asp Gly His Phe Arg Pro Cys Leu Ile Ser Asn
 65 70 75 80
 Cys Ser Glu Asp Ser Cys Thr Pro Pro Phe Glu Phe His Ala Cys Gly
 85 90 95
 Ser Pro Cys Ala Gly Leu Cys Ala Thr His Leu Ser His Gln Leu Cys
 100 105 110
 Gln Asp Leu Pro Pro Cys Gln Pro Gly Cys Tyr Cys Pro Lys Gly Leu
 115 120 125
 Leu Glu Gln Ala Gly Gly Cys Ile Pro Pro Glu Glu Cys Asn Cys Trp
 130 135 140
 His Thr Ser Ala Ala Gly Ala Gly Met Thr Leu Ala Pro Gly Asp Arg
 145 150 155 160
 Leu Gln Leu Gly Cys Lys Glu Cys Glu Cys Gln Arg Gly Glu Leu His
 165 170 175
 Cys Thr Ser Gln Gly Cys Gln Gly Leu Leu Pro Leu Ser Glu Trp Ser
 180 185 190
 Glu Trp Ser Pro Cys Gly Pro Cys Leu Pro Pro Ser Ala Leu Ala Pro
 195 200 205
 Ala Ser Arg Thr Ala Leu Glu Glu His Trp Leu Arg Asp Pro Thr Gly
 210 215 220
 Leu Ser Pro Thr Leu Ala Pro Leu Leu Ala Ser Glu Gln His Arg His
 225 230 235 240
 Arg Leu Cys Leu Asp Pro Ala Thr Gly Arg Pro Trp Thr Gly Ala Pro
 245 250 255
 His Leu Cys Thr Ala Pro Leu Ser Gln Gln Arg Leu Cys Pro Asp Pro
 260 265 270

Gly	Ala	Cys	Pro	Asp	Ser	Cys	Gln	Trp	Ser	Leu	Trp	Gly	Pro	Trp	Ser	
275						280				285						
Pro	Cys	Gln	Val	Pro	Cys	Ser	Gly	Gly	Phe	Arg	Leu	Arg	Trp	Arg	Glu	
290						295				300						
Ala	Glu	Ala	Leu	Cys	Gly	Gly	Gly	Phe	Arg	Glu	Pro	Trp	Ala	Gln	Asp	
305					310					315					320	
Arg	Lys	Leu	Gln	Arg	Arg	Ala	Leu	Pro	Arg							
325										330						

<210> 2287

<211> 250

<212> PRT

<213> Homo sapiens

<400> 2287

Met	Leu	Val	Arg	Ser	Val	Gly	Leu	Phe	Leu	Val	Gly	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Leu	Leu	Ala	Ala	Ala	Ala	Leu	Leu	Gly	Ser	Ala	Pro	Tyr	Tyr	Gln
			20					25					30		
Pro	Gly	Ser	Val	Trp	Gly	Pro	Leu	Gly	Leu	Leu	Leu	Gly	Gly	Gly	Leu
			35				40					45			
Leu	Cys	Ala	Leu	Leu	Thr	Leu	Arg	Trp	Pro	Arg	Pro	Leu	Thr	Thr	Leu
	50					55				60					
Ala	Thr	Ala	Val	Thr	Gly	Ala	Ala	Leu	Ile	Ala	Thr	Ala	Ala	Asp	Tyr
65					70				75					80	
Phe	Ala	Glu	Leu	Leu	Leu	Leu	Gly	Arg	Tyr	Val	Val	Glu	Arg	Leu	Arg
			85					90					95		
Ala	Ala	Pro	Val	Pro	Pro	Leu	Cys	Trp	Arg	Ser	Trp	Ala	Leu	Leu	Ala
			100					105				110			
Leu	Trp	Pro	Leu	Leu	Ser	Leu	Met	Gly	Val	Leu	Val	Gln	Trp	Arg	Val
	115						120					125			
Thr	Ala	Glu	Gly	Asp	Ser	His	Thr	Glu	Val	Val	Ile	Ser	Arg	Gln	Arg
	130					135					140				
Arg	Arg	Val	Gln	Leu	Met	Arg	Ile	Arg	Gln	Gln	Glu	Asp	Arg	Lys	Glu
145					150				155					160	

Lys Arg Arg Lys Lys Arg Pro Pro Arg Ala Pro Leu Arg Gly Pro Arg
 165 170 175
 Ala Pro Pro Arg Pro Gly Pro Pro Asp Pro Ala Tyr Arg Arg Arg Pro
 180 185 190
 Val Pro Ile Lys Arg Phe Asn Gly Asp Val Leu Ser Pro Ser Tyr Ile
 195 200 205
 Gln Ser Phe Arg Asp Arg Gln Thr Gly Ser Ser Leu Ser Ser Phe Met
 210 215 220
 Ala Ser Pro Thr Asp Ala Asp Tyr Glu Tyr Gly Ser Arg Gly Pro Leu
 225 230 235 240
 Thr Ala Cys Ser Gly Pro Pro Val Arg Val
 245 250

<210> 2288

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2288

Met His Gly Leu Arg Glu Gln Phe Ser His Pro Arg Trp Pro Ala Ser
 1 5 10 15
 Leu Cys Leu Cys Phe Pro Ala Leu Thr Pro Asp Val Val His Gln Ser
 20 25 30
 Leu Phe Met Ser Ala Leu Ser Ala His Pro Asp Arg Ser Leu Ser Val
 35 40 45
 Cys Trp Glu Gln His Cys Lys Leu Leu Pro Gly Val Ala Gly Ile Ser
 50 55 60
 Ala Ser Thr Val Ala Lys Trp Thr Ile Asp Glu Val Phe Gly Phe Val
 65 70 75 80
 Gln Thr Leu Thr Gly Cys Glu Asp Gln Ala Arg Leu Phe Lys Asp Glu
 85 90 95
 Ala Arg Ile Val Arg Val Thr His Val Ser Gly Lys Thr Leu Val Trp
 100 105 110
 Thr Val Ala Gln Leu Gly Asp Leu Val Cys Ser Asp His Leu Gln Glu
 115 120 125

Gly Lys Gly Ile Leu Glu Thr Gly Val His Ser Leu Leu Cys Ser Leu
 130 135 140
 Pro Thr His Leu Leu Ala Lys Leu Ser Phe Ala Ser Asp Ser Gln Tyr
 145 150 155 160

<210> 2289

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2289

Met Ala Ala Pro Leu Gln Glu Arg Gln Leu Gly Cys Leu Arg Pro Asp
 1 5 10 15
 Gly Gln Arg Leu Pro Trp Pro Arg Val Val Thr Val Leu Arg Pro Leu
 20 25 30
 Arg Ala Ala Gln Ser Gly Lys Lys Ser Ala Glu Pro Gly Lys Phe Leu
 35 40 45
 Ser Val Ser Ser Gly Leu Glu Gly Ala Gly Ile Asp Arg Ala Glu Ala
 50 55 60
 Ala Arg Ala Trp Cys Cys Phe Gly Ile Gly Gly Arg Arg Ala Glu Pro
 65 70 75 80
 Pro Ala Pro Trp Val Trp Phe His Pro Trp Pro Val Pro Gly Thr Arg
 85 90 95
 Gln Leu Leu Leu Cys Ala Tyr Trp Cys His His Val Ile
 100 105

<210> 2290

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2290

Met Ala Arg Glu Glu Cys Lys Ala Leu Leu Asp Gly Leu Asn Lys Thr

1	5	10	15
Thr Ala Cys Tyr His His Leu Val Leu Thr Val Gly Gly Ser Ala Asp			
20	25	30	
Ser Gln Asn Leu Arg Gln Glu Leu Gln Lys Thr Arg Gln Lys Ala Gln			
35	40	45	
Glu Leu Ala Val Ser Thr Cys Ala Arg Leu Thr Ala Val Leu Arg Asp			
50	55	60	
Arg Gly Leu Ala Ala Asp Glu Arg Ala Glu Phe Glu Arg Leu Trp Val			
65	70	75	80
Ala Phe Ser Gly Cys Leu Asp Leu Leu Glu Ala Asp Met Arg Arg Ser			
85	90	95	
Leu Glu Leu Gly Ala Ala Phe Pro Leu His Ala Pro Arg Arg Pro Leu			
100	105	110	
Val Arg Thr Gly Val Ala Gly Ala Ser Ser Gly Val Ala Ala Arg Ala			
115	120	125	
Leu Ser Thr Arg Ser Leu Arg Leu Glu Ala Glu Gly Asp Phe Asp Val			
130	135	140	
Ala Asp Leu Arg Glu Leu Glu Arg Glu Val Leu Gln Val Gly Glu Met			
145	150	155	160
Ile Asp Asn Met Glu Met Lys Val Asn Val Pro Arg Trp Thr Val Gln			
165	170	175	
Ala Arg Gln Ala Ala Gly Ala Glu Leu Leu Ser Thr Val Ser Ala Gly			
180	185	190	
Pro Ser Ser Val Val Ser Leu Gln Glu Arg Gly Gly Gly Cys Asp Pro			
195	200	205	
Arg Lys Ala Leu Ala Ala Ile Leu Phe Gly Ala Val Leu Leu Ala Ala			
210	215	220	
Val Ala Leu Ala Val Cys Val Ala Lys Leu Ser			
225	230	235	

<210> 2291

<211> 628

<212> PRT

<213> Homo sapiens

<400> 2291

Met Leu Ser Cys Leu Lys Glu Glu Met Pro Pro Gln Glu Leu Thr Arg
 1 5 10 15
 Arg Leu Ala Thr Val Ile Thr His Val Asp Glu Ile Met Gln Gln Glu
 20 25 30
 Val Arg Pro Leu Met Ala Val Glu Ile Ile Glu Gln Leu His Arg Gln
 35 40 45
 Phe Ala Ile Leu Ser Gly Gly Arg Gly Glu Asp Gly Ala Pro Ile Ile
 50 55 60
 Thr Phe Pro Glu Phe Ser Gly Phe Lys His Ile Pro Asp Glu Asp Phe
 65 70 75 80
 Leu Asn Val Met Thr Tyr Leu Thr Ser Ile Pro Ser Val Glu Ala Ala
 85 90 95
 Ser Ile Gly Phe Ile Val Val Ile Asp Arg Arg Arg Asp Lys Trp Ser
 100 105 110
 Ser Val Lys Ala Ser Leu Thr Arg Ile Ala Val Ala Phe Pro Gly Asn
 115 120 125
 Leu Gln Leu Ile Phe Ile Leu Arg Pro Ser Arg Phe Ile Gln Arg Thr
 130 135 140
 Phe Thr Asp Ile Gly Ile Lys Tyr Tyr Arg Asn Glu Phe Lys Thr Lys
 145 150 155 160
 Val Pro Ile Ile Met Val Asn Ser Val Ser Asp Leu His Gly Tyr Ile
 165 170 175
 Asp Lys Ser Gln Leu Thr Arg Glu Leu Gly Gly Thr Leu Glu Tyr Arg
 180 185 190
 His Gly Gln Trp Val Asn His Arg Thr Ala Ile Glu Asn Phe Ala Leu
 195 200 205
 Thr Leu Lys Thr Thr Ala Gln Met Leu Gln Thr Phe Gly Ser Cys Leu
 210 215 220
 Ala Thr Ala Glu Leu Pro Arg Ser Met Leu Ser Thr Glu Asp Leu Leu
 225 230 235 240
 Met Ser His Thr Arg Gln Arg Asp Lys Leu Gln Asp Glu Leu Lys Leu
 245 250 255
 Leu Gly Lys Gln Gly Thr Thr Leu Leu Ser Cys Ile Gln Glu Pro Ala
 260 265 270
 Thr Lys Cys Pro Asn Ser Lys Leu Asn Leu Asn Gln Leu Glu Asn Val

275	280	285
Thr Thr Met Glu Arg Leu Leu Val Gln Leu Asp Glu Thr Glu Lys Ala		
290	295	300
Phe Ser His Phe Trp Ser Glu His His Leu Lys Leu Asn Gln Cys Leu		
305	310	315
Gln Leu Gln His Phe Glu His Asp Phe Cys Lys Ala Lys Leu Ala Leu		
325	330	335
Asp Asn Leu Leu Glu Glu Gln Ala Glu Phe Thr Gly Ile Gly Asp Ser		
340	345	350
Val Met His Val Glu Gln Leu Leu Lys Glu His Lys Lys Leu Glu Glu		
355	360	365
Lys Ser Gln Glu Pro Leu Glu Lys Ala Gln Leu Leu Ala Leu Val Gly		
370	375	380
Asp Gln Leu Ile Gln Ser His His Tyr Ala Ala Asp Ala Ile Arg Pro		
385	390	395
Arg Cys Val Glu Leu Arg His Leu Cys Asp Asp Phe Ile Asn Gly Asn		
405	410	415
Lys Lys Lys Trp Asp Ile Leu Gly Lys Ser Leu Glu Phe His Arg Gln		
420	425	430
Leu Asp Lys Val Ser Gln Trp Cys Glu Ala Gly Ile Tyr Leu Leu Ala		
435	440	445
Ser Gln Ala Val Asp Lys Cys Gln Ser Arg Glu Gly Val Asp Ile Ala		
450	455	460
Leu Asn Asp Ile Ala Thr Phe Leu Gly Thr Val Lys Glu Tyr Pro Leu		
465	470	475
Leu Ser Pro Lys Glu Phe Tyr Asn Glu Phe Glu Leu Leu Leu Thr Leu		
485	490	495
Asp Ala Lys Ala Lys Ala Gln Lys Val Leu Gln Arg Leu Asp Asp Val		
500	505	510
Gln Glu Ile Phe His Lys Arg Gln Val Ser Leu Met Lys Leu Ala Ala		
515	520	525
Lys Gln Thr Arg Pro Val Gln Pro Val Ala Pro His Pro Glu Ser Ser		
530	535	540
Pro Lys Trp Val Ser Ser Lys Thr Ser Gln Pro Ser Thr Ser Val Pro		
545	550	555
Leu Ala Arg Pro Leu Arg Thr Ser Glu Glu Pro Tyr Thr Glu Thr Glu		

565 570 575
 Leu Asn Ser Arg Gly Lys Glu Asp Asp Glu Thr Lys Phe Glu Val Lys
 580 585 590
 Ser Glu Glu Ile Phe Glu Ser His His Glu Arg Gly Asn Pro Glu Leu
 595 600 605
 Glu Gln Gln Ala Arg Leu Gly Asp Leu Ser Pro Arg Arg Tyr Ser Ser
 610 615 620
 Gln Tyr Phe Lys
 625

<210> 2292

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2292

Met Ala Phe Leu Met Lys Ser Met Ile Ser Asn Gln Val Lys Asn Leu
 1 5 10 15
 Gly Phe Gly Gly Gly Ser Glu Glu Asn Lys Glu Glu Gly Gly Ala Ser
 20 25 30
 Asp Pro Ala Ala Ala Gln Gly Met Thr Arg Glu Glu Tyr Glu Glu Tyr
 35 40 45
 Gln Lys Gln Met Ile Glu Glu Lys Met Glu Arg Asp Ala Ala Phe Thr
 50 55 60
 Gln Lys Lys Ala Glu Arg Ala Cys Leu Arg Val His Leu Arg Glu Lys
 65 70 75 80
 Tyr Arg Leu Pro Lys Ser Glu Met Asp Glu Asn Gln Ile Gln Met Ala
 85 90 95
 Gly Asp Asp Val Asp Leu Pro Glu Asp Leu Arg Lys Met Val Asp Glu
 100 105 110
 Asp Gln Glu Glu Glu Glu Asp Lys Asp Ser Ile Leu Gly Gln Ile Gln
 115 120 125
 Asn Leu Gln Asn Met Asp Leu Asp Thr Ile Lys Glu Lys Ala Gln Ala
 130 135 140
 Thr Phe Thr Glu Ile Lys Gln Thr Ala Glu Gln Lys Cys Ser Val Met

145 150 155 160

<210> 2293

<211> 233

<212> PRT

<213> Homo sapiens

<400> 2293

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Met Glu Gly Cys Pro Pro Gly Leu Trp Leu Ala Leu Gly Val Arg Val
  1                   5                   10                   15
Ser Gly Ala Pro Pro Ala Val Ser Pro Arg Gln Ser His Gly Gly Ala
                   20                   25                   30
Gly Ala Trp Thr Leu Ser His Pro Gly Glu Pro Leu Ser His Arg Leu
                   35                   40                   45
Pro Gly Leu Gln Pro Pro His Ala Ser Pro Arg Leu Val Leu Gly Pro
                   50                   55                   60
Gly Pro Pro Leu Ser Lys Ala Asp Phe Pro Ser Phe His Asp Lys Asp
  65                   70                   75                   80
Ala Gln Pro Arg Phe Pro Gly Ala Leu Ala Arg Glu Ile Ala Gly Cys
                   85                   90                   95
Ile Pro Thr Pro Ala Gly Thr Cys Ala Pro Pro Gly Gln Gly Leu Pro
                   100                  105                  110
Val Pro Phe Arg Gly Ser Pro Ala Ala Ser Thr Gly Arg Lys Arg Arg
                   115                  120                  125
Ser Ala Glu Arg Thr Asn Gly Ala Asp Pro Arg Arg Leu Gly Ala Gly
                   130                  135                  140
Arg Gly Gly Ala Glu Pro Pro Arg Leu Gln Leu Ala Gly Thr Arg Gly
  145                  150                  155                  160
Arg Ala Ala Gly Leu Gly Gly Ala His Ser Ala Thr Asp Arg Pro Arg
                   165                  170                  175
Arg Leu Cys Arg Pro Leu Pro Val Ser Arg Gly Gly Ser Arg Gln Glu
                   180                  185                  190
Ala Glu Gly Thr Pro Pro Ala Pro Gly Gln Ala Ala Arg Ala Ala Asp
                   195                  200                  205
Pro Ser Arg Glu Gly Pro Trp Ala Asp Glu Pro Arg Val Pro Gln Pro

```

210 215 220
 Trp Ser Arg Thr Thr Arg Ser Arg Arg
 225 230

<210> 2294

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2294

Met Ser Ser Leu Ala Tyr Gly Thr Leu Gly Asp Leu Ser Gln Tyr Lys
 1 5 10 15
 Glu Val Arg Leu Ala Ser Trp Lys Ser Glu Pro Gln Gly Ala Ser Phe
 20 25 30
 Leu Leu Cys Arg Val Gln Ser Gly Pro Gly Ser Gly Cys Ser Ala Leu
 35 40 45
 Val Phe Cys Gly Ser Arg Cys Pro Leu Leu Phe Val Ser Gly Asn Met
 50 55 60
 Ala Ser Gly Val Ala Val Ser Asp Gly Val Ile Lys Val Phe Asn Asp
 65 70 75 80
 Met Lys Val Arg Lys Ser Ser Thr Pro Glu Glu Val Lys Lys Arg Lys
 85 90 95
 Lys Ala Val Leu Phe Cys Leu Ser Glu Asp Lys Lys Asn Ile Ile Leu
 100 105 110
 Glu Glu Gly Lys Glu Ile Leu Val Gly Asp Val Gly Gln Thr Val Asp
 115 120 125
 Asp Pro Tyr Ala Thr Phe Val Lys Met Leu Pro Asp Lys Asp Cys Arg
 130 135 140
 Tyr Ala Leu Tyr Asp Ala Thr Tyr Glu Thr Lys Glu Ser Lys Lys Glu
 145 150 155 160
 Asp Leu Val Phe Ile Phe Trp Ala Pro Glu Ser Ala Pro Leu Lys Ser
 165 170 175
 Lys Met Ile Tyr Ala Ser Ser Lys Asp Ala Ile Lys Lys Lys Leu Thr
 180 185 190
 Gly Ile Lys His Glu Leu Gln Ala Asn Cys Tyr Glu Glu Val Lys Asp

195 200 205
 Arg Cys Thr Leu Ala Glu Lys Leu Gly Gly Ser Ala Val Ile Ser Leu
 210 215 220
 Glu Gly Lys Pro Leu
 225

<210> 2295

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2295

Met Val Gly Ala Gly Asp Asp Gly Ala Pro Gly Val Gly Met Arg Lys
 1 5 10 15
 Glu Pro Arg Asn Gly Tyr Ile Leu Glu Thr Glu Leu Thr Gly Leu Gly
 20 25 30
 Ser Glu Leu Asn Leu Trp Glu Glu Gly Glu Ile Glu Ala Gln Leu Ala
 35 40 45
 Phe Arg Gly Asp Val Ala Asn Lys Val Pro Gly Gly Ile Val Tyr Pro
 50 55 60
 His Glu Gly Cys Arg Gly Lys Ser Arg Val Ser Arg Arg Val Glu Met
 65 70 75 80
 Ser Gly Asp Leu Leu Gly His Ile Met Ile Glu Lys Val Gly Leu Gly
 85 90 95
 Arg Gly Trp Trp Leu Met Ser Val Ile Pro Ala Leu Trp Glu Ala Glu
 100 105 110
 Val Asp His Leu Arg Ser Gly Val Gly Asp Gln Pro Gly Gln His Gly
 115 120 125
 Glu Thr Pro Ser Leu Leu Lys Ile Gln Asn
 130 135

<210> 2296

<211> 225

<212> PRT

<213> Homo sapiens

<400> 2296

Met Thr Cys Asn Ser Arg Trp Trp Ile Cys Ser Lys Ala Ser Ile Pro
 1 5 10 15
 Thr Pro Ser Lys Gly Gln Val Ser Ser Pro Ala Ser Glu Ile Arg Leu
 20 25 30
 Trp Asp Pro Cys Leu Gly Gly Gly Leu His Ala Pro Ala Thr Ser Ala
 35 40 45
 Gly Ala Asp Ser Arg Thr Pro Trp His Phe Leu Arg Thr Arg Ala Trp
 50 55 60
 Asp Gly Pro Ser Ala Pro Trp Tyr Ala Leu Pro Ser Phe Gln Leu Pro
 65 70 75 80
 Cys Pro Leu Thr Leu Gly Ser Pro Pro Pro His Gln Cys Arg Val Leu
 85 90 95
 Val Pro Thr Ser Ser Phe Leu Gln Pro Gln Thr Ala Ser Gly Ser Ser
 100 105 110
 Cys Pro Ser Pro Ser Gly Thr Pro Ala Pro Gly Cys Pro Leu Ser Leu
 115 120 125
 Pro Pro Met Pro Arg Ala Pro Pro Ala Ser Ala Gly Gln Ala Phe Arg
 130 135 140
 Thr Leu Pro Pro Thr Gln Phe Tyr Asn Pro Ala Pro Ser Pro Gly Asn
 145 150 155 160
 Pro Thr His Gln Pro Arg Pro Ala Pro Pro Pro Phe Pro Gly Gly Ser
 165 170 175
 Pro Gly Met Leu Arg Val Gly Gly Gly Ala Arg Leu Asp Ala Ser Cys
 180 185 190
 Gly Ser Pro Leu Gln Thr Trp Leu Ala Pro Ala Ala Thr Glu Thr Thr
 195 200 205
 Met Ala Lys Asn Leu Ile Gly Ser Gln Gly Leu Thr Arg Gly Gly Lys
 210 215 220
 Gln
 225

<210> 2297

<211> 248

<212> PRT

<213> Homo sapiens

<400> 2297

Met Trp Pro Gly Asn Ala Trp Arg Ala Ala Leu Phe Trp Val Pro Arg

1 5 10 15

Gly Arg Arg Ala Gln Ser Ala Leu Ala Gln Leu Arg Gly Ile Leu Glu

20 25 30

Gly Glu Leu Glu Gly Ile Arg Gly Ala Gly Thr Trp Lys Ser Glu Arg

35 40 45

Val Ile Thr Ser Arg Gln Gly Pro His Ile Arg Val Asp Gly Val Ser

50 55 60

Gly Gly Pro Gly Thr Val Ile Phe Pro Gly Leu Pro Ser Pro His Leu

65 70 75 80

Ser Cys Cys Ile His Leu Leu Ser Phe Thr Ser Gly Ile Leu Asn Phe

85 90 95

Cys Ala Asn Asn Tyr Leu Gly Leu Ser Ser His Pro Glu Val Ile Gln

100 105 110

Ala Gly Leu Gln Ala Leu Glu Glu Phe Gly Ala Gly Leu Ser Ser Val

115 120 125

Arg Phe Ile Cys Gly Thr Gln Ser Ile His Lys Asn Leu Glu Ala Lys

130 135 140

Ile Ala Arg Phe His Gln Arg Glu Asp Ala Ile Leu Tyr Pro Ser Cys

145 150 155 160

Tyr Asp Ala Asn Ala Gly Leu Phe Glu Ala Leu Leu Thr Pro Glu Asp

165 170 175

Ala Val Leu Ser Asp Glu Leu Asn His Ala Ser Ile Ile Asp Gly Ile

180 185 190

Arg Leu Cys Lys Ala His Lys Tyr Arg Tyr Arg His Leu Asp Met Ala

195 200 205

Asp Leu Glu Ala Lys Leu Gln Glu Ala Gln Lys His Arg Leu Arg Leu

210 215 220

Val Ala Thr Asp Gly Ala Phe Phe His Gly Trp Arg His Arg Thr Pro

225 230 235 240

Ala Gly Asp Leu Leu Pro Arg Leu

245

<210> 2298

<211> 221

<212> PRT

<213> Homo sapiens

<400> 2298

```

Met Gly Ser Ala Leu Arg Gly Leu Gly Ser Ala Thr Phe Ser Ser Ser
 1             5             10             15
Pro Val Thr His Ser Ser Arg Val Gly Gly Val Leu Pro Ala Pro Pro
      20             25             30
Arg Gly Leu Gly Ile Ser Pro Ser Pro Cys Pro Gly Asp Ser Leu Ala
      35             40             45
Leu Ser Arg Thr Ala Ser Leu Leu Gly Leu Ser Leu Gly Thr Gln Trp
      50             55             60
Thr Pro Lys Ser Arg Pro Ala Pro Thr Thr Gly Pro Ala Ser Leu Cys
      65             70             75             80
Leu Pro Gln Leu Ala Trp Val Leu Ala Trp Val Arg Ile Trp Lys Leu
      85             90             95
Leu Ala Gly Leu Asn Gln Ala Leu Leu Ser Ser Ser Arg Ala Leu Ser
      100            105            110
His Arg Arg Gln Arg Pro Ala Ala Ser Arg Pro His Cys Gln Gln Cys
      115            120            125
Pro Trp Pro Ser Glu Pro Arg Arg Ser Ser Thr Pro Ser Arg Pro Ser
      130            135            140
Ser Thr Pro Pro Arg Pro Ala Gly Gln Gly Gln Ala Leu Pro Gln Ile
      145            150            155            160
Leu Ile Gly Arg Glu Ala Leu Leu Thr Phe Pro Pro Gly Gly Arg Gly
      165            170            175
Trp Ser Glu Ser Pro His Ser Arg Glu Thr His Arg Ser Pro Leu Asn
      180            185            190
Phe Ala Asp Ala His Leu Glu Asn Gly Leu Ser Cys Thr Arg Pro Ser
      195            200            205
His Thr Thr Ala Leu Gln Ala Asp Gly Met Phe Gln Leu

```

210

215

220

<210> 2299

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2299

```

Met Leu Pro Arg Ser Gln Ser Leu Cys Tyr Ser Leu Pro Gln Ala Ile
  1              5              10              15
Leu Ser Pro Trp Pro Pro Lys Val Leu Ser Leu Gln Val Ser Thr Thr
      20              25              30
Val Ala Ser His Ala Leu Val Leu Arg Ser Arg Ile Phe Leu Phe Gly
      35              40              45
Ala Phe Thr Ile Ser Phe Arg Leu Gly Asp Arg Glu Pro Thr Lys Gln
      50              55              60
Pro Phe Arg Gly Trp Lys Lys Ser Leu Glu Lys Glu Leu Cys Gly Phe
      65              70              75              80
Arg Asn Phe Ser Arg Lys Ser Ser Arg Ala Glu Lys Glu Asn Leu Pro
      85              90              95
Asn Gly Arg Val Tyr
      100

```

<210> 2300

<211> 277

<212> PRT

<213> Homo sapiens

<400> 2300

```

Met Glu Glu Asn Gln Arg Val Ala Arg Arg Arg Arg Phe Pro Phe Val
  1              5              10              15
Arg Glu Arg Ser Asp Ser Thr Gly Ser Ser Ser Val Tyr Phe Thr Ala
      20              25              30
Ser Ser Gly Ala Thr Phe Thr Asp Ala Glu Ser Glu Gly Gly Tyr Thr

```

35	40	45
Thr Ala Asn Ala Glu Ser Asp	Asn Glu Arg Asp Ser Asp	Lys Glu Ser
50	55	60
Glu Asp Gly Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly Arg		
65	70	75
Lys Asp Ser Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser Ser		
85	90	95
Ala Leu Glu Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro Leu		
100	105	110
Leu Gln Gln Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys Arg		
115	120	125
Glu Gly Phe Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser Arg		
130	135	140
Gln Asp Phe Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys Glu		
145	150	155
Leu Thr Glu Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly Lys		
165	170	175
Glu Glu Ala Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp Cys		
180	185	190
His Leu Trp Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu Ser		
195	200	205
Ile Gln Arg Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val Asp		
210	215	220
Lys Ala Ile Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu Leu		
225	230	235
		240
Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys Lys		
245	250	255
Leu Leu Gln Pro Cys Leu Lys Ala Leu Ser Val Pro Leu Trp Lys Met		
260	265	270
Pro Ser Arg Ala Ser		
275		

<210> 2301

<211> 330

<212> PRT

<213> Homo sapiens

<400> 2301

```

Met Arg Arg Asp Pro Ala Pro Gly Phe Ser Met Leu Leu Phe Gly Val
  1             5             10             15
Leu Leu Ala Cys Tyr Ser Pro Ser Leu Lys Ser Val Gln Asp Gln Ala
          20             25             30
Tyr Lys Ala Pro Val Val Val Glu Gly Lys Val Gln Gly Leu Val Pro
      35             40             45
Ala Gly Gly Ser Ser Ser Asn Ser Thr Arg Glu Pro Pro Ala Ser Gly
      50             55             60
Arg Val Ala Leu Val Lys Val Leu Asp Lys Trp Pro Leu Arg Ser Gly
      65             70             75             80

Gly Leu Gln Arg Glu Gln Val Ile Ser Val Gly Ser Cys Val Pro Leu
          85             90             95
Glu Arg Asn Gln Arg Tyr Ile Phe Phe Leu Glu Pro Thr Glu Gln Pro
      100             105             110
Leu Val Phe Lys Thr Ala Phe Ala Pro Leu Asp Thr Asn Gly Lys Asn
      115             120             125
Leu Lys Lys Glu Val Gly Lys Ile Leu Cys Thr Asp Cys Ala Thr Arg
      130             135             140
Pro Lys Leu Lys Lys Met Lys Ser Gln Thr Gly Gln Val Gly Glu Lys
      145             150             155             160
Gln Ser Leu Lys Cys Glu Ala Ala Ala Gly Asn Pro Gln Pro Ser Tyr
          165             170             175
Arg Trp Phe Lys Asp Gly Lys Glu Leu Asn Arg Ser Arg Asp Ile Arg
          180             185             190
Ile Lys Tyr Gly Asn Gly Arg Lys Asn Ser Arg Leu Gln Phe Asn Lys
          195             200             205
Val Lys Val Glu Asp Ala Gly Glu Tyr Val Cys Glu Ala Glu Asn Ile
          210             215             220
Leu Gly Lys Asp Thr Val Arg Gly Arg Leu Tyr Val Asn Ser Val Ser
      225             230             235             240
Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr

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<211> 113

<213> Homo sapiens

[illegible]

<210> 2303

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2303

```

Met Gln Pro Pro Ala Leu Ser Ser Asn Ser Arg Val Arg Ile Thr Gln
  1             5             10             15
Pro Cys Leu Asp Asp Arg Cys Ser Glu Leu Ser Gly Ala Leu Pro Arg
      20             25             30
Ala Gln Arg Ser Arg Ala Val Pro Ile Pro Ala Arg Pro Arg Lys Arg
      35             40             45
Pro Ser Cys Arg Glu Ser Gly Lys Pro Arg Ala Gly Trp Val Ser Ala
      50             55             60
Gln Ser Pro Thr Thr Gly Trp Gly Gly Gly His Pro Gln Ser Thr Val
      65             70             75             80
Ser Gly Gly Arg Asn Arg Ala Leu Leu Ala Ser Val Arg Phe Arg Arg
      85             90             95
Arg Gln Arg Gly Tyr Leu Ala Trp Cys Gly Gly Arg Ala Gly Ala Val
      100            105            110
Pro Ala Glu Gly Pro Ala Val Cys Ala Gly His Ala Arg Gly His Ala
      115            120            125
Gly Arg Pro Ala Ala Ala Ala Pro Arg Lys Ala Ala Pro Ala Gly Ser
      130            135            140
Met Arg His Pro Ala Pro Gly Pro Asp Cys Pro Arg His Gln His Gln
      145            150            155            160
Gly Gln Lys Gln Tyr Asn Ile His Val Gly Thr Ala Gly Ser Lys Asp
      165            170            175
Lys Arg Pro Lys Ile Ser Gly Leu Arg Met Glu His Ser His Glu Pro
      180            185            190
Ala His Asp Lys Thr His Pro Cys Phe Ser Gly Ser Arg Leu Tyr Val
      195            200            205
Lys Ala Ser Cys Arg Gly Cys
      210            215

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<210> 2304

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2304

```

Met Glu Leu Leu Asp Pro Asp Glu Leu Arg Gly Glu Ala Gly Tyr Tyr
  1              5              10              15
Leu Thr Thr Trp Phe Gly Ala Leu His His Ile Ala His Tyr Gln Pro
          20              25              30
Glu Thr Asp Arg Ala Pro Arg Gly Leu Ser Ser Glu Ala Arg Ala Ser
          35              40              45
Leu His Gln Trp His Arg Arg Arg Thr Leu His Arg Lys Asp His Pro
          50              55              60
Arg Ala Gln Val Thr Ala His Leu Ala Ala Ser Arg Arg Glu Gly Glu
          65              70              75              80
Thr Trp Cys Pro Ser Asp Pro Ala Pro Thr Ser Pro His Arg Pro Thr
          85              90              95
Cys Pro Leu Arg Ser His Gly Gln Lys Arg Leu
          100              105

```

<210> 2305

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2305

```

Met Ile Leu Lys Lys Gly Pro His Phe Pro Gly Glu Ala Asp Pro Arg
  1              5              10              15
Cys Val Val Gly Ser Pro Gly Ala Gly Asp Arg Arg Cys Ala Cys Ala
          20              25              30
Ala Ala Gly Thr Gly Ala Ser Arg Leu Gly Val Ala Arg Gly Val Pro
          35              40              45

```

Gly Gln Pro Gly Pro His Pro Gly Pro Leu Val Pro Cys Pro Ser Ser
 50 55 60
 Leu Pro Ile Leu Pro His Leu Pro Ser Thr Thr Val Ala Ala Ala Gly
 65 70 75 80
 Ser Ala Ser Ala Thr Gly Ala Ala Ala Arg Arg Cys Arg Cys Gly Ala
 85 90 95
 Cys Ala Leu Trp Thr Pro Cys Gly Ser Ala Arg Ser Ala Pro Trp Cys
 100 105 110
 Pro Ser Arg Arg Arg Ser Ser Thr Thr Ser Ser Ser Lys Cys Ser
 115 120 125

<210> 2306

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2306

Met Val Ala Ala Tyr Ala Gly His Ile Asp Cys Val Arg Glu Leu Val
 1 5 10 15
 Leu Gln Gly Ala Asp Ile Asn Leu Gln Arg Glu Asp Gly Gly Thr Ala
 20 25 30
 Leu Leu Ala Ala Ser Gln Tyr Gly His Met Gln Val Val Glu Thr Leu
 35 40 45
 Leu Lys His Gly Ala Asn Ile His Asp Gln Leu Tyr Asp Gly Ala Thr
 50 55 60
 Ala Leu Phe Leu Ala Ala Gln Gly Gly Tyr Leu Asp Val Ile Arg Leu
 65 70 75 80
 Leu Leu Ala Ser Gly Ala Lys Val Asn Gln Pro Arg Thr Gly Gln Arg
 85 90 95
 Pro Cys Gly Ser Arg Pro Arg Trp Ala Thr Ala Arg Trp Cys Gly Cys
 100 105 110
 Cys Cys Cys Ala Glu Pro Thr Ala Thr Leu Arg Gly Thr Met Ala Gln
 115 120 125
 Gln His Tyr
 130

<210> 2307

<211> 190

<212> PRT

<213> Homo sapiens

<400> 2307

```

Met Leu Phe Thr His Ala Ser Leu Thr Ile Met Thr Lys Ile Phe Phe
  1             5             10             15
Leu Ala Cys Ile Leu Ser Gln Ser Val Gln Tyr Ile Gly Leu Lys Val
          20             25             30
Leu Trp Lys Ser Leu Cys Arg Ser Ile Ile Cys Val Lys Lys Lys Lys
          35             40             45
Lys Pro Lys Lys Gln Lys Lys Lys Thr Phe Asp Leu Ser Arg His Ile
          50             55             60
Glu Ala Gln Leu Thr Ala Ser Phe Ala Gly Ile Trp Phe Tyr Phe Leu
          65             70             75             80
Phe Arg Phe Ile Ile Asp Ser Thr Ser Ile Ser Leu Asp Cys Phe Phe
          85             90             95
Val Ile Val Gly Gln Val Ser Ile Ser Ile Asn Ser Ile Leu Ser Leu
          100            105            110
Asn Ser Ser Phe His Thr Ser Phe Asp Thr Leu Val Ala Leu Ser Phe
          115            120            125
Ile Leu Leu Val Phe Val Leu Arg Gln Ser Leu Ala Leu Pro Leu Arg
          130            135            140
Leu Glu Cys Ser Gly Thr Ile Thr Ala His Cys Ser Leu Tyr Leu Leu
          145            150            155            160
Gly Pro Ser Ser Ala Leu Asp Ser Gly Met Pro Asn Ser Val Ala Gly
          165            170            175
Thr Thr Ser Leu Thr Ile Leu Pro Gly Leu Val Leu Asn Pro
          180            185            190

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<210> 2308

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2308

Met Leu Glu Asp Pro Val Ala Leu Lys Ala Cys Leu Leu His Ile Cys
 1 5 10 15
 Leu Gln Ser Gln Thr Ser Gly Pro Gly Ala Val Ser Ser Leu Val Ser
 20 25 30
 Gly Ile Pro Val Ala Ser Met Phe Cys Val Cys Val Trp Cys Ala Pro
 35 40 45
 Ser Ser His Cys Leu Asn Ser Leu Lys Ser His Lys Gly Gly Leu Leu
 50 55 60
 Leu Glu Ile Trp Pro Pro Leu Ala Pro Pro Arg Ser Pro His Val Ser
 65 70 75 80
 Pro Thr Gly Ser Pro Gln Thr Thr Ser Glu Gly Leu Thr Cys Cys His
 85 90 95

 Ser Leu Leu Leu Pro Gln Ser Arg Val Met Arg Met Asp Gly Val Gln
 100 105 110
 Gly Phe Arg Trp Gly Leu Arg Arg Cys Pro Cys Trp Pro Cys Pro Ser
 115 120 125
 Trp Leu Ser Arg Pro Gly Phe Thr Val Gln Leu His Leu Tyr Ala Gly
 130 135 140
 Arg Gly Ala Asp Ser Ser Gly Thr Pro Trp Phe Trp Ile Pro Phe Leu
 145 150 155 160
 Gly Ser Leu Trp Arg Gln Pro Gly Phe Ser Gly Ala Ala Ser Gln Gln
 165 170 175
 Leu Ser Gln Gly
 180

<210> 2309

<211> 1015

<212> PRT

<213> Homo sapiens

<400> 2309

Met Ala Gln Gly Glu Ala Gln Trp Phe Gln Glu Ala Lys Asn Leu Asn
 1 5 10 15
 Glu Gln Leu Arg Ala Ala Tyr Thr Ser Ala Ser Phe Arg His Met Ser
 20 25 30
 Leu Leu Asp Ile Ser Ser Asp Leu Ala Thr Asp His Leu Leu Gly Cys
 35 40 45
 Asp Leu Ser Ile Ala Ser Lys His Ile Ser Lys Pro Val Gln Glu Pro
 50 55 60
 Leu Val Leu Pro Glu Val Phe Gly Asn Leu Asn Ser Val Met Cys Val
 65 70 75 80
 Glu Gly Glu Ala Gly Ser Gly Lys Thr Val Leu Leu Lys Lys Ile Ala
 85 90 95
 Phe Leu Trp Ala Ser Gly Cys Cys Pro Leu Leu Asn Arg Phe Gln Leu
 100 105 110
 Val Phe Tyr Leu Ser Leu Ser Ser Thr Arg Pro Asp Glu Gly Leu Ala
 115 120 125
 Ser Ile Ile Cys Asp Gln Leu Leu Glu Lys Glu Gly Ser Val Thr Glu
 130 135 140
 Met Cys Met Arg Asn Ile Ile Gln Gln Leu Lys Asn Gln Val Leu Phe
 145 150 155 160
 Leu Leu Asp Asp Tyr Lys Glu Ile Cys Ser Ile Pro Gln Val Ile Gly
 165 170 175
 Lys Leu Ile Gln Lys Asn His Leu Ser Arg Thr Cys Leu Leu Ile Ala
 180 185 190
 Val Arg Thr Asn Arg Ala Arg Asp Ile Arg Arg Tyr Leu Glu Thr Ile
 195 200 205
 Leu Glu Ile Lys Ala Phe Pro Phe Tyr Asn Thr Val Cys Ile Leu Arg
 210 215 220
 Lys Leu Phe Ser His Asn Met Thr Arg Leu Arg Lys Phe Met Val Tyr
 225 230 235 240
 Phe Gly Lys Asn Gln Ser Leu Gln Lys Ile Gln Lys Thr Pro Leu Phe
 245 250 255
 Val Ala Ala Ile Cys Ala His Trp Phe Gln Tyr Pro Phe Asp Pro Ser
 260 265 270
 Phe Asp Asp Val Ala Val Phe Lys Ser Tyr Met Glu Arg Leu Ser Leu

275	280	285
Arg Asn Lys Ala Thr Ala Glu Ile Leu Lys Ala Thr Val Ser Ser Cys		
290	295	300
Gly Glu Leu Ala Leu Lys Gly Phe Phe Ser Cys Cys Phe Glu Phe Asn		
305	310	315
Asp Asp Asp Leu Ala Glu Ala Gly Val Asp Glu Asp Glu Asp Leu Thr		
325	330	335
Met Cys Leu Met Ser Lys Phe Thr Ala Gln Arg Leu Arg Pro Phe Tyr		
340	345	350
Arg Phe Leu Ser Pro Ala Phe Gln Glu Phe Leu Ala Gly Met Arg Leu		
355	360	365
Ile Glu Leu Leu Asp Ser Asp Arg Gln Glu His Gln Asp Leu Gly Leu		
370	375	380
Tyr His Leu Lys Gln Ile Asn Ser Pro Ile Met Thr Val Ser Ala Tyr		
385	390	395
Asn Asn Phe Leu Asn Tyr Val Ser Ser Leu Pro Ser Thr Lys Ala Gly		
405	410	415
Pro Lys Ile Val Ser His Leu Leu His Leu Val Asp Asn Lys Glu Ser		
420	425	430
Leu Glu Asn Ile Ser Glu Asn Asp Asp Tyr Leu Lys His Gln Pro Glu		
435	440	445
Ile Ser Leu Gln Met Gln Leu Leu Arg Gly Leu Trp Gln Ile Cys Pro		
450	455	460
Gln Ala Tyr Phe Ser Met Val Ser Glu His Leu Leu Val Leu Ala Leu		
465	470	475
Lys Thr Ala Tyr Gln Ser Asn Thr Val Ala Ala Cys Ser Pro Phe Val		
485	490	495
Leu Gln Phe Leu Gln Gly Arg Thr Leu Thr Leu Gly Ala Leu Asn Leu		
500	505	510
Gln Tyr Phe Phe Asp His Pro Glu Ser Leu Ser Leu Leu Arg Ser Ile		
515	520	525
His Phe Pro Ile Arg Gly Asn Lys Thr Ser Pro Arg Ala His Phe Ser		
530	535	540
Val Leu Glu Thr Cys Phe Asp Lys Ser Gln Val Pro Thr Ile Asp Gln		
545	550	555
Asp Tyr Ala Ser Ala Phe Glu Pro Met Asn Glu Trp Glu Arg Asn Leu		

565	570	575
Ala Glu Lys Glu Asp Asn Val Lys Ser Tyr Met Asp Met Gln Arg Arg		
580	585	590
Ala Ser Pro Asp Leu Ser Thr Gly Tyr Trp Lys Leu Ser Pro Lys Gln		
595	600	605
Tyr Lys Ile Pro Cys Leu Glu Val Asp Val Asn Asp Ile Asp Val Val		
610	615	620
Gly Gln Asp Met Leu Glu Ile Leu Met Thr Val Phe Ser Ala Ser Gln		
625	630	635
Arg Ile Glu Leu His Leu Asn His Ser Arg Gly Phe Ile Glu Ser Ile		
645	650	655
Arg Pro Ala Leu Glu Leu Ser Lys Ala Ser Val Thr Lys Cys Ser Ile		
660	665	670
Ser Lys Leu Glu Leu Ser Ala Ala Glu Gln Glu Leu Leu Leu Thr Leu		
675	680	685
Pro Ser Leu Glu Ser Leu Glu Val Ser Gly Thr Ile Gln Ser Gln Asp		
690	695	700
Gln Ile Phe Pro Asn Leu Asp Lys Phe Leu Cys Leu Lys Glu Leu Ser		
705	710	715
Val Asp Leu Glu Gly Asn Ile Asn Val Phe Ser Val Ile Pro Glu Glu		
725	730	735
Phe Pro Asn Phe His His Met Glu Lys Leu Leu Ile Gln Ile Ser Ala		
740	745	750
Glu Tyr Asp Pro Ser Lys Leu Val Lys Leu Ile Gln Asn Ser Pro Asn		
755	760	765
Leu His Val Phe His Leu Lys Cys Asn Phe Phe Ser Asp Phe Gly Ser		
770	775	780
Leu Met Thr Met Leu Val Ser Cys Lys Lys Leu Thr Glu Ile Lys Phe		
785	790	795
Ser Asp Ser Phe Phe Gln Ala Val Pro Phe Val Ala Ser Leu Pro Asn		
805	810	815
Phe Ile Ser Leu Lys Ile Leu Asn Leu Glu Gly Gln Gln Phe Pro Asp		
820	825	830
Glu Glu Thr Ser Glu Lys Phe Ala Tyr Ile Leu Gly Ser Leu Ser Asn		
835	840	845

Leu Glu Glu Leu Ile Leu Pro Thr Gly Asp Gly Ile Tyr Arg Val Ala
 850 855 860
 Lys Leu Ile Ile Gln Gln Cys Gln Gln Leu His Cys Leu Arg Val Leu
 865 870 875 880
 Ser Phe Phe Lys Thr Leu Asn Asp Asp Ser Val Val Glu Ile Ala Lys
 885 890 895
 Val Ala Ile Ser Gly Gly Phe Gln Lys Leu Glu Asn Leu Lys Leu Ser
 900 905 910
 Ile Asn His Lys Ile Thr Glu Glu Gly Tyr Arg Asn Phe Phe Gln Ala
 915 920 925
 Leu Asp Asn Met Pro Asn Leu Gln Glu Leu Asp Ile Ser Arg His Phe
 930 935 940
 Thr Glu Cys Ile Lys Ala Gln Ala Thr Thr Val Lys Ser Leu Ser Gln
 945 950 955 960
 Cys Val Leu Arg Leu Pro Arg Leu Ile Arg Leu Asn Met Leu Ser Trp
 965 970 975
 Leu Leu Asp Ala Asp Asp Ile Ala Leu Leu Asn Val Met Lys Glu Arg
 980 985 990
 His Pro Gln Ser Lys Tyr Leu Thr Ile Leu Gln Lys Trp Ile Leu Pro
 995 1000 1005
 Phe Ser Pro Ile Ile Gln Lys
 1010 1015

<210> 2310

<211> 259

<212> PRT

<213> Homo sapiens

<400> 2310

Met Gln Phe Leu His Lys Leu Ile Leu Asn His Asn Pro Leu Thr Thr
 1 5 10 15
 Val Glu Asp Pro Tyr Leu Phe Lys Leu Pro Ala Leu Lys Tyr Leu Asp
 20 25 30
 Met Gly Thr Thr Leu Val Pro Leu Thr Thr Leu Lys Asn Ile Leu Met
 35 40 45

Met Thr Val Glu Leu Glu Lys Leu Ile Leu Pro Ser His Met Ala Cys
 50 55 60
 Cys Leu Cys Gln Phe Lys Asn Ser Ile Glu Ala Val Cys Lys Thr Val
 65 70 75 80
 Lys Leu His Cys Asn Ser Ala Cys Leu Thr Asn Thr Thr His Cys Pro
 85 90 95
 Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met Lys Val Leu
 100 105 110
 Gln Ala Arg Lys Asn Tyr Thr Ser Thr Glu Leu Ile Val Glu Pro Glu
 115 120 125
 Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe Gly Ser Glu
 130 135 140
 Gln Leu Asp Thr Asn Asp Glu Ser Asp Phe Ile Ser Thr Leu Ser Tyr
 145 150 155 160
 Ile Leu Pro Tyr Phe Ser Ala Val Asn Leu Asp Val Lys Ser Leu Leu
 165 170 175
 Leu Pro Leu Ile Lys Leu Pro Thr Thr Gly Asn Ser Leu Ala Lys Ile
 180 185 190
 Gln Thr Val Gly Gln Asn Arg Gln Arg Val Lys Arg Val Leu Met Gly
 195 200 205
 Pro Arg Ser Ile Gln Lys Arg His Phe Lys Glu Val Gly Arg Gln Ser
 210 215 220
 Ile Arg Arg Glu Gln Gly Ala Gln Ala Ser Val Glu Asn Ala Ala Glu
 225 230 235 240
 Glu Lys Arg Leu Gly Ser Pro Ala Pro Thr Glu Glu Glu Glu Ser Glu
 245 250 255
 Ala Leu Pro

<210> 2311

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2311

Met Ala Thr Ser Asp Pro Pro Gln Ser Leu Asp Thr Ser Leu Phe Phe
 1 5 10 15
 Gly Thr Val Ala Met Lys Asn Ser Ser Pro Glu Pro Gln Ala Leu Thr
 20 25 30
 Pro Ser Ser Lys Leu Thr Val Asp Thr Asp Ala Leu Thr Pro Ser Ser
 35 40 45
 Thr Leu Cys Glu Asn Ser Val Ser Glu Leu Leu Thr Pro Thr Lys Ala
 50 55 60
 Glu Trp Asn Val His Pro Asp Ser Asp Phe Phe Gly Gln Glu Gly Glu
 65 70 75 80
 Thr Gln Phe Gly Phe Pro Asn Ala Ala Gly Asn His Gly Ser Gln Lys
 85 90 95
 Glu Thr Asp Leu Ile Thr Val Thr Gly Ser Ser Phe Leu Val
 100 105 110

<210> 2312

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2312

Met Lys Met Ser Phe Phe Glu Arg Leu Arg Ser Ala Thr Trp Lys Pro
 1 5 10 15
 Val Pro Asp Ser His Gln Gly Pro Ala Phe Tyr Cys Gly Thr Leu Lys
 20 25 30
 Ala Gly Pro Ser Pro Lys Asp Thr Phe Leu Ser Leu Leu Asn Trp Asn
 35 40 45
 Tyr Gly Phe Val Phe Ile Asn Gly Arg Asn Leu Gly Arg Tyr Trp Asn
 50 55 60
 Ile Gly Pro Gln Lys Thr Leu Tyr Leu Pro Gly Val Trp Leu His Pro
 65 70 75 80
 Glu Asp Asn Glu Val Ile Leu Phe Glu Lys Met Met Ser Gly Ser Asp
 85 90 95
 Ile Lys Ser Thr Asp Lys Pro Thr Pro
 100 105

<210> 2313

<211> 567

<212> PRT

<213> Homo sapiens

<400> 2313

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Met Ala Ala Pro Gln Gly Leu Ala Ala Thr Ser Pro Ser Pro Arg Leu
 1             5             10             15
Ser Ala Gly Pro Arg Pro Thr Ser Val Thr Trp Cys Ser Ser Ser Phe
          20             25             30
Trp Trp Thr Pro Ile Pro Phe Pro Leu Ala Ile Ser Ala Thr Thr Pro
      35             40             45
Ser Pro Pro Arg Trp Pro Arg Trp Arg Ser Arg His Arg Pro Ala Pro
      50             55             60
Arg Ser Pro Ser Ser Gly Trp Pro Gln Ser Ala Pro His Arg Glu Gly
      65             70             75             80
Arg Tyr Leu Ser Glu Glu Pro Glu Pro Tyr Leu Ala Val Tyr Leu His
          85             90             95
Ser Glu Pro Arg Pro Asn Glu Arg Asn Cys Ser Ala Ser Arg Arg Ile
          100             105             110
Arg Pro Glu Ser Leu Gln Gly Ala Asp His Arg Pro Tyr Thr Phe Phe
          115             120             125
Ile Ser Pro Gly Thr Arg Asp Pro Val Gly Ser Tyr Arg Leu Asn Leu
          130             135             140
Ser Ser His Phe Arg Trp Ser Ala Leu Glu Val Ser Val Gly Leu Tyr
          145             150             155             160
Thr Ser Leu Cys Gln Tyr Phe Ser Glu Glu Asp Val Val Trp Arg Thr
          165             170             175
Glu Gly Leu Leu Pro Leu Glu Glu Thr Ser Pro Arg Gln Ala Val Cys
          180             185             190
Leu Thr Arg His Leu Thr Ala Phe Gly Thr Ser Leu Phe Met Pro Pro
          195             200             205
Ser His Val Arg Phe Val Phe Pro Glu Pro Thr Ala Asp Val Asn Tyr
          210             215             220

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Ile Val Met Leu Thr Cys Ala Val Cys Leu Val Thr Tyr Met Val Met
 225 230 235 240
 Ala Ala Ile Leu His Lys Leu Asp Gln Leu Asp Ala Ser Arg Gly Cys
 245 250 255
 Ala Ile Pro Phe Cys Gly Gln Arg Gly Arg Phe Lys Tyr Glu Ile Leu
 260 265 270
 Val Lys Thr Gly Trp Gly Arg Gly Ser Gly Thr Thr Ala His Val Gly
 275 280 285
 Ile Met Leu Tyr Gly Val Asp Ser Arg Ser Gly His Arg His Leu Asp
 290 295 300
 Gly Asp Arg Ala Phe His Arg Asn Ser Leu Asp Ile Phe Gln Ile Ala
 305 310 315 320
 Thr Pro His Ser Leu Gly Ser Val Trp Lys Ile Arg Val Trp His Asp
 325 330 335
 Asn Lys Gly Leu Ser Pro Ala Trp Phe Leu Gln His Ile Ile Val Arg
 340 345 350
 Asp Leu Gln Thr Ala Arg Ser Thr Phe Phe Leu Val Asn Asp Trp Leu
 355 360 365
 Ser Val Glu Thr Glu Ala Asn Gly Gly Leu Val Glu Lys Glu Val Leu
 370 375 380
 Ala Ala Ser His Ala Ala Leu Leu Arg Phe Arg Arg Leu Leu Val Ala
 385 390 395 400
 Glu Leu Gln Arg Gly Phe Phe Asp Lys His Ile Trp Leu Ser Ile Trp
 405 410 415
 Asp Arg Pro Pro Arg Ser Cys Phe Thr Arg Ile Gln Arg Ala Thr Cys
 420 425 430
 Cys Val Leu Leu Ile Cys Leu Phe Leu Gly Ala Asn Ala Val Trp Tyr
 435 440 445
 Gly Ala Val Gly Asp Ser Ala Tyr Ser Thr Gly Arg Val Ser Arg Leu
 450 455 460
 Asn Pro Leu Ser Val Asp Thr Val Ala Val Gly Leu Val Ser Ser Val
 465 470 475 480
 Val Val Tyr Pro Val Tyr Leu Val Ile Leu Phe Leu Phe Arg Met Ser
 485 490 495
 Arg Ser Lys Val Ala Gly Ser Pro Ser Pro Thr Pro Ala Gly Gln Gln
 500 505 510

Val Leu Asp Val Asp Ser Cys Leu Asp Ser Ser Val Leu Asp Ser Ser
 515 520 525
 Phe Leu Thr Phe Ser Gly Leu His Ala Glu Val Arg Ala Leu Leu Gly
 530 535 540
 Val Leu Pro Pro Trp Arg Ser Leu Asp Ser Arg Pro Cys Ala Pro Leu
 545 550 555 560
 Ser Arg Pro Leu Leu Asp Arg
 565

<210> 2314

<211> 314

<212> PRT

<213> Homo sapiens

<400> 2314

Met Pro Lys Ser Pro Phe Lys Arg Lys Arg Thr Thr Asn Glu Ile Lys
 1 5 10 15
 Asn Leu Gln Tyr Leu Pro Arg Thr Ser Glu Pro Arg Glu Met Leu Phe
 20 25 30
 Glu Asp Arg Thr Arg Ala His Ala Asp His Ile Gly Gln Gly Phe Glu
 35 40 45
 Arg Gln Thr Thr Ala Ala Val Gly Val Leu Lys Ala Val His Cys Gly
 50 55 60
 Glu Trp Pro Asp Gln Pro Arg Ile Thr Lys Asp Val Ile Cys Phe His
 65 70 75 80
 Ala Glu Asp Phe Leu Glu Val Val Gln Arg Met Gln Leu Asp Leu His
 85 90 95
 Glu Pro Pro Leu Ser Gln Cys Val Gln Trp Val Asp Asp Ala Lys Leu
 100 105 110
 Asn Gln Leu Arg Arg Glu Gly Ile Arg Tyr Ala Arg Ile Gln Leu Tyr
 115 120 125
 Asp Asn Asp Ile Tyr Phe Ile Pro Arg Asn Val Val His Gln Phe Lys
 130 135 140
 Thr Val Ser Ala Val Cys Ser Leu Ala Trp His Ile Arg Leu Lys Leu
 145 150 155 160

Tyr His Ser Glu Glu Asp Thr Ser Gln Asn Thr Ala Thr His Glu Thr
 165 170 175
 Gly Thr Ser Ser Asp Ser Thr Ser Ser Val Leu Gly Pro His Thr Asp
 180 185 190
 Asn Met Ile Cys Ala Val Ser Lys Ala Ser Leu Asp Ser Val Phe Ser
 195 200 205
 Asp Lys Leu His Ser Lys Tyr Glu Leu Gln Gln Ile Lys His Glu Pro
 210 215 220
 Ile Ala Ser Val Arg Ile Lys Glu Glu Pro Val Asn Val Asn Ile Pro

 225 230 235 240
 Glu Lys Thr Thr Ala Leu Asn Asn Met Asp Gly Lys Asn Val Lys Ala
 245 250 255
 Lys Leu Asp His Val Gln Phe Ala Glu Phe Lys Ile Asp Met Asp Ser
 260 265 270
 Lys Phe Glu Ser Ser Asn Lys Asp Leu Lys Glu Glu Leu Cys Pro Gly
 275 280 285
 Asn Leu Ser Leu Val Asp Thr Arg Gln His Ser Ser Ala His Ser Asn
 290 295 300
 Gln Asp Lys Lys Asp Asp Asp Ile Leu Cys
 305 310

<210> 2315

<211> 200

<212> PRT

<213> Homo sapiens

<400> 2315

Met Ala Gln Gln Arg Ala Leu Pro Gln Ser Lys Glu Thr Leu Leu Gln
 1 5 10 15
 Ser Tyr Asn Lys Arg Leu Lys Asp Asp Ile Lys Ser Ile Met Asp Asn
 20 25 30
 Phe Thr Glu Ile Ile Lys Thr Ala Lys Ile Glu Asp Glu Thr Gln Val
 35 40 45
 Ser Arg Ala Thr Gln Gly Glu Gln Asp Asn Tyr Glu Met His Val Arg

50 55 60
 Ala Ala Asn Ile Val Arg Ala Gly Glu Ser Leu Met Lys Leu Val Ser
 65 70 75 80
 Asp Leu Lys Gln Phe Leu Ile Leu Asn Asp Phe Pro Ser Val Asn Glu
 85 90 95
 Ala Ile Asp Gln Arg Asn Gln Gln Leu Arg Thr Leu Gln Glu Glu Cys
 100 105 110
 Asp Arg Lys Leu Ile Thr Leu Arg Asp Glu Ile Ser Ile Asp Leu Tyr
 115 120 125
 Glu Leu Glu Glu Glu Tyr Tyr Ser Ser Ser Ser Ser Leu Cys Glu Ala
 130 135 140
 Asn Asp Leu Pro Leu Cys Glu Ala Tyr Gly Arg Leu Asp Leu Asp Thr
 145 150 155 160
 Asp Ser Ala Asp Gly Leu Ser Ala Pro Leu Leu Ala Ser Pro Glu Pro
 165 170 175
 Ser Ala Gly Pro Leu Gln Val Ala Ala Pro Ala His Ser His Ala Gly
 180 185 190
 Gly Pro Gly Pro Thr Glu His Ala
 195 200

<210> 2316

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2316

Met Thr Thr Ala Thr Pro Leu Gly Asp Thr Thr Phe Phe Ser Leu Asn
 1 5 10 15
 Met Thr Thr Arg Gly Glu Asp Phe Leu Tyr Lys Ser Ser Gly Ala Ile
 20 25 30
 Val Ala Ala Val Val Val Val Val Ile Ile Ile Phe Thr Val Val Leu
 35 40 45
 Ile Leu Leu Lys Met Tyr Asn Arg Lys Met Arg Thr Arg Arg Glu Leu
 50 55 60
 Glu Pro Lys Gly Pro Lys Pro Thr Ala Pro Ser Ala Val Gly Pro Asn

65 70 75 80
 Ser Asn Gly Ser Gln His Pro Ala Thr Val Thr Phe Ser Pro Val Asp
 85 90 95
 Val Gln Val Glu Thr Arg
 100

<210> 2317

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2317

Met Val Met Leu Glu Asp Ser Asn Ser Ser Thr Gly Cys Gly Ala Arg
 1 5 10 15
 Asn Cys Val Glu Cys Leu Val Phe Leu Ser Val Leu Gly Cys Gln Ser
 20 25 30
 Glu Arg Lys Gly Gln Met Arg Thr Gln Gln Ala Gly Arg Trp Leu Arg
 35 40 45
 Ala Gly Arg Glu Ala Ser Ser Glu Thr Asn Pro Glu Gly Thr Leu Ile
 50 55 60
 Leu Asp Phe Gln Ser Pro Glu Leu Pro Leu Ala Ala Arg Gly Trp Gln
 65 70 75 80
 Glu His Glu Pro Val Val Arg Cys Asn Val Leu Pro His Ala Phe Ser
 85 90 95
 Ser Trp Cys Phe Gly Gln Asn Phe Pro Lys Trp Ser Glu Thr Gln Glu
 100 105 110
 Leu Arg Asn Arg Val Thr Val Lys Arg Trp Glu Ile Ile Ser Cys Glu
 115 120 125
 Asn Ser Gly Arg Lys
 130

<210> 2318

<211> 224

<212> PRT

<213> Homo sapiens

<400> 2318

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Met Tyr Arg Pro Ala Thr Ala Leu Gly Ser Asn Arg Ala Val Gln Leu
 1             5             10             15
Leu Leu Glu Thr Ser Ala Asp Asn Gln His Tyr Tyr Cys Asp Ser Leu
             20             25             30
Lys Ala Cys Leu Val Thr Thr Val Thr Ser Ser Gly Pro Ser Gln Ser
             35             40             45
Thr Ile Lys Leu Val Ala Thr Asn Met Ile Ala Asn Gly Lys Leu Ala
             50             55             60
Glu Gly Val Gln Leu Leu Cys Leu Ile Asp Lys Ala Ala Asp Ala Cys
65             70             75             80
Arg Tyr Leu Gln Thr Tyr Gly Glu Trp Asn Arg Ala Ala Trp Leu Ala
             85             90             95
Lys Val Arg Leu Asn Pro Glu Glu Cys Ala Asp Val Leu Arg Arg Trp
             100            105            110
Val Asp His Leu Cys Ser Pro Gln Val Asn Gln Lys Ser Lys Ala Leu
             115            120            125
Leu Val Leu Leu Ser Leu Gly Cys Phe Phe Ser Val Ala Glu Thr Leu
             130            135            140
His Ser Met Arg Tyr Phe Asp Arg Ala Ala Leu Phe Val Glu Ala Cys
145            150            155            160
Leu Lys Tyr Gly Ala Phe Glu Val Thr Glu Asp Thr Glu Lys Leu Ile
             165            170            175
Thr Ala Ile Tyr Ala Asp Tyr Ala Arg Ser Ser Lys Asn Leu Gly Phe
             180            185            190
Lys Gln Gly Ala Val Leu Phe Ala Ser Lys Ala Gly Ala Ala Gly Lys
             195            200            205
Asp Leu Leu Asn Glu Leu Glu Ser Pro Lys Glu Glu Pro Ile Glu Glu
             210            215            220

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<210> 2319

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2319

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Met Pro Gly Ser Leu Lys Arg Asp His Ile Leu Tyr His Leu Ile Leu
  1              5              10              15
Ile Trp Gly Ile Ile Phe Ile Ser His Gln Asp Lys Ile Pro Gly Gly
      20              25              30
Gly Ile Thr Cys Lys Val His Thr Ser Pro Pro Met Tyr Ser Leu Asp
      35              40              45
Arg Ile Phe Ala Gly Phe Arg Thr Gln Ser Gln Met Leu Leu Asp His
      50              55              60
Val Glu Glu Arg Asp Glu Val Leu His Cys Gln Phe Ser Asp Asn Ser
      65              70              75              80
Asp Asp Glu Glu Ser Glu Gly Gln Glu Lys Ser Gly Thr Arg Cys Arg
      85              90              95
Ser Arg Ser Trp Ile Gln Lys Pro Asp Ser Val Pro Leu Leu Asn
      100              105              110

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<210> 2320

<211> 733

<212> PRT

<213> Homo sapiens

<400> 2320

```

Met Pro Ala Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly
  1              5              10              15
His Gly Glu Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys Tyr Cys Asn
      20              25              30
Pro Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val Asp Val Asn
      35              40              45
Glu Cys Glu Ala Glu Pro Cys Gly Pro Gly Arg Gly Ile Cys Met Asn
      50              55              60
Thr Gly Gly Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His
      65              70              75              80

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Val Gly Ala Gly Gly Arg Ser Cys Val Asp Leu Asn Glu Cys Ala Lys			
	85	90	95
Pro His Leu Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly His			
	100	105	110
Tyr Lys Cys Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro			
	115	120	125
Pro Val Cys Glu Asp Ile Asp Glu Cys Arg Asp Pro Ser Ser Cys Pro			
	130	135	140
Asp Gly Lys Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys			
145	150	155	160
Gln Pro Gly Tyr Arg Ser Gln Gly Gly Gly Ala Cys Arg Asp Val Asn			
	165	170	175
Glu Cys Ala Glu Gly Ser Pro Cys Ser Pro Gly Trp Cys Glu Asn Leu			
	180	185	190
Pro Gly Ser Phe Arg Cys Thr Cys Ala Gln Gly Tyr Ala Pro Ala Pro			
	195	200	205
Asp Gly Arg Ser Cys Leu Asp Val Asp Glu Cys Glu Ala Gly Asp Val			
	210	215	220
Cys Asp Asn Gly Ile Cys Ser Asn Thr Pro Gly Ser Phe Gln Cys Gln			
225	230	235	240
Cys Leu Ser Gly Tyr His Leu Ser Arg Asp Arg Ser His Cys Glu Asp			
	245	250	255
Ile Asp Glu Cys Asp Phe Pro Ala Ala Cys Ile Gly Gly Asp Cys Ile			
	260	265	270
Asn Thr Asn Gly Ser Tyr Arg Cys Leu Cys Pro Gln Gly His Arg Leu			
	275	280	285
Val Gly Gly Arg Lys Cys Gln Asp Ile Asp Glu Cys Ser Gln Asp Pro			
	290	295	300
Ser Leu Cys Leu Pro His Gly Ala Cys Lys Asn Leu Gln Gly Ser Tyr			
305	310	315	320
Val Cys Val Cys Asp Glu Gly Phe Thr Pro Thr Gln Asp Gln His Gly			
	325	330	335
Cys Glu Glu Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn			
	340	345	350
Phe Asp Asp Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr			
	355	360	365

Gln Gln Glu Cys Cys Cys Ser Leu Gly Ala Gly Trp Gly Asp His Cys
 370 375 380
 Glu Ile Tyr Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu
 385 390 395 400
 Cys Pro Asp Gly Lys Gly Tyr Thr Gln Asp Asn Ile Ile Val Asn Tyr
 405 410 415
 Gly Ile Pro Ala His Arg Asp Ile Asp Glu Cys Met Leu Phe Gly Ser
 420 425 430
 Glu Ile Cys Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu
 435 440 445
 Cys Tyr Cys Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys
 450 455 460
 Val Asp Val Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val
 465 470 475 480
 Cys Glu Asn Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala
 485 490 495
 Glu Tyr Ser Pro Ala Gln Arg Gln Cys Leu Ser Pro Glu Glu Met Asp
 500 505 510
 Val Asp Glu Cys Gln Asp Pro Ala Ala Cys Arg Pro Gly Arg Cys Val
 515 520 525
 Asn Leu Pro Gly Ser Tyr Arg Cys Glu Cys Arg Pro Pro Trp Val Pro
 530 535 540
 Gly Pro Ser Gly Arg Asp Cys Gln Leu Pro Glu Ser Pro Ala Glu Arg
 545 550 555 560
 Ala Pro Glu Arg Arg Asp Val Cys Trp Ser Gln Arg Gly Glu Asp Gly
 565 570 575
 Met Cys Ala Gly Pro Leu Ala Gly Pro Ala Leu Thr Phe Asp Asp Cys
 580 585 590
 Cys Cys Arg Gln Gly Arg Gly Trp Gly Ala Gln Cys Arg Pro Cys Pro
 595 600 605
 Pro Arg Gly Ala Gly Ser His Cys Pro Thr Ser Gln Ser Glu Ser Asn
 610 615 620
 Ser Phe Trp Asp Thr Ser Pro Leu Leu Leu Gly Lys Pro Pro Arg Asp
 625 630 635 640
 Glu Asp Ser Ser Glu Glu Asp Ser Asp Glu Cys Arg Cys Val Ser Gly
 645 650 655

Arg Cys Val Pro Arg Pro Gly Gly Ala Val Cys Glu Cys Pro Gly Gly
 660 665 670
 Phe Gln Leu Asp Ala Ser Arg Ala Arg Cys Val Asp Ile Asp Glu Cys
 675 680 685
 Arg Glu Leu Asn Gln Arg Gly Leu Leu Cys Lys Ser Glu Arg Cys Val
 690 695 700
 Asn Thr Ser Gly Ser Phe Arg Cys Val Cys Lys Ala Gly Phe Ala Arg
 705 710 715 720
 Ser Arg Pro His Gly Ala Cys Val Pro Gln Arg Arg Arg
 725 730

<210> 2321

<211> 841

<212> PRT

<213> Homo sapiens

<400> 2321

Met Thr Val Leu Glu Gln Asp Thr Gln Gly Leu Asp Gly Trp Trp Leu
 1 5 10 15
 Cys Ser Leu His Gly Arg Gln Gly Ile Val Pro Gly Asn Arg Leu Lys
 20 25 30
 Ile Leu Val Gly Met Tyr Asp Lys Lys Pro Ala Gly Pro Gly Ser Gly
 35 40 45
 Pro Pro Ala Thr Pro Ala Gln Pro Gln Pro Gly Leu His Ala Pro Ala
 50 55 60
 Pro Pro Ala Ser Gln Tyr Thr Pro Met Leu Pro Asn Thr Tyr Gln Pro
 65 70 75 80
 Gln Pro Asp Ser Val Tyr Leu Val Pro Thr Pro Ser Lys Ala Gln Gln
 85 90 95
 Gly Leu Tyr Gln Val Pro Gly Pro Ser Pro Gln Phe Gln Ser Pro Pro
 100 105 110
 Ala Lys Gln Thr Ser Thr Phe Ser Lys Gln Thr Pro His His Pro Phe
 115 120 125
 Pro Ser Pro Ala Thr Asp Leu Tyr Gln Val Pro Pro Gly Pro Gly Gly
 130 135 140

Pro Ala Gln Asp Ile Tyr Gln Val Pro Pro Ser Ala Gly Met Gly His
 145 150 155 160
 Asp Ile Tyr Gln Val Pro Pro Ser Met Asp Thr Arg Ser Trp Glu Gly
 165 170 175
 Thr Lys Pro Pro Ala Lys Val Val Val Pro Thr Arg Val Gly Gln Gly
 180 185 190
 Tyr Val Tyr Glu Ala Ala Gln Pro Glu Gln Asp Glu Tyr Asp Ile Pro
 195 200 205
 Arg His Leu Leu Ala Pro Gly Pro Gln Asp Ile Tyr Asp Val Pro Pro
 210 215 220
 Val Arg Gly Leu Leu Pro Ser Gln Tyr Gly Gln Glu Val Tyr Asp Thr
 225 230 235 240
 Pro Pro Met Ala Val Lys Gly Pro Asn Gly Arg Asp Pro Leu Leu Glu
 245 250 255
 Val Tyr Asp Val Pro Pro Ser Val Glu Lys Gly Leu Pro Pro Ser Asn
 260 265 270
 His His Ala Val Tyr Asp Val Pro Pro Ser Val Ser Lys Asp Val Pro
 275 280 285
 Asp Gly Pro Leu Leu Arg Glu Glu Thr Tyr Asp Val Pro Pro Ala Phe
 290 295 300
 Ala Lys Ala Lys Pro Phe Asp Pro Ala Arg Thr Pro Leu Val Leu Ala
 305 310 315 320
 Ala Pro Pro Pro Asp Ser Pro Pro Ala Glu Asp Val Tyr Asp Val Pro
 325 330 335
 Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly Leu Arg Arg Pro
 340 345 350
 Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg Val Leu Pro Pro
 355 360 365
 Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val Tyr Ala Val Pro
 370 375 380
 Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys Arg Leu Ser Ala
 385 390 395 400
 Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala Ser Ser Leu Glu
 405 410 415
 Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu Val Ala Val Glu
 420 425 430

Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr Val Ala His Leu
 435 440 445
 Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser Trp Arg Ser Pro
 450 455 460
 Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln Ala Ala Val Ala
 465 470 475 480
 Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe Ala Arg Ser Ala
 485 490 495
 Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu His Ala Lys Leu
 500 505 510
 Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln Thr Leu Val Ala
 515 520 525
 His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser Gly Ala Thr Leu
 530 535 540
 Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala Val Pro Glu Asp
 545 550 555 560
 Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala Ser Leu Leu Phe
 565 570 575
 Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly Gly Gly Thr Leu
 580 585 590
 His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln Ser Arg Pro Leu
 595 600 605
 Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro Asp Gly Gln Tyr
 610 615 620
 Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp Tyr Val His Leu
 625 630 635 640
 Gln Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Glu Leu Leu Glu Lys
 645 650 655
 Gly Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu Leu Gln Gln Leu
 660 665 670
 Lys Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg Pro Ile Asp His
 675 680 685
 Asp Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala Pro Gly Arg Thr
 690 695 700
 Gly Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu Phe Tyr Leu Glu
 705 710 715 720

Gln Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala Val Asp Ala Phe
 725 730 735
 Phe Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile Phe Val Ala His
 740 745 750
 Ser Lys Phe Val Ile Leu Ser Ala His Lys Leu Val Phe Ile Gly Asp
 755 760 765
 Thr Leu Ser Arg Gln Ala Lys Ala Ala Asp Val Arg Ser Gln Val Thr
 770 775 780
 His Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly Ile Val Ala Thr
 785 790 795 800
 Thr Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser Ala Ala Gln Asp
 805 810 815
 Met Val Glu Arg Val Lys Glu Leu Gly His Ser Thr Gln Gln Phe Arg
 820 825 830
 Arg Val Leu Gly Gln Leu Ala Ala Ala
 835 840

<210> 2322

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2322

Met Lys Ser Leu Met Leu Leu Gly Leu His Thr Gln Glu Leu Leu Thr
 1 5 10 15
 Leu Met Phe Gly Ala Ser Gly Glu Ser Trp Lys Ser Gly Ser Cys Pro
 20 25 30
 Gly Ser Ile Ser Thr Trp Ser Leu Lys Tyr His Val Ile Pro Pro Ser
 35 40 45
 Pro Ser Gly Leu Ser Ser Ser Pro Trp Ser Leu Trp His Ser Asn Lys
 50 55 60
 His Val Met Gly Gln Gly Phe Arg Arg Val Lys Asn Arg Ile Cys Leu
 65 70 75 80
 Ala Ser Gln Ser Leu Glu Thr His Arg Ala Ser Phe Gln Leu His Ser
 85 90 95

Cys Trp Ser Glu Pro Val Ile Thr Lys Pro Ala Glu Ile Gln Gly Asn
 100 105 110

Arg

<210> 2323

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2323

Met Pro Gly Gly Val Gln Gly Ser Gly Leu Thr Arg Pro Arg Gly His
 1 5 10 15
 Pro Gln Asp Asp Leu Trp Pro Arg Val Thr Pro Phe Cys Pro Ala Gly
 20 25 30
 Gln His Ile Tyr Leu Ser Ala Arg Ile Asp Gly Asn Leu Val Val Arg
 35 40 45
 Pro Tyr Thr Pro Ile Ser Ser Asp Asp Asp Lys Gly Phe Val Asp Leu
 50 55 60
 Val Ile Lys Val Tyr Phe Lys Asp Thr His Pro Lys Phe Pro Ala Gly
 65 70 75 80
 Gly Lys Met Ser Gln Tyr Leu Glu Ser Met Gln Ile Gly Asp Thr Ile
 85 90 95
 Glu Phe Arg Gly Pro Ser Gly Leu Leu Val Tyr Gln Gly Lys Gly Lys
 100 105 110
 Phe Ala Ile Arg Pro Asp Lys Lys Ser Asn Pro Ile Ile Arg Thr Val
 115 120 125
 Lys Ser Val Gly Met Ile Ala Gly Gly Thr Gly Ile Thr Pro Met Leu
 130 135 140
 Gln Val Ile Arg Ala Ile Met Lys Asp Pro Asp Asp His Thr Val Cys
 145 150 155 160
 His Leu Leu Phe Ala Asn Gln Thr Glu Lys Asp Ile Leu Leu Arg Pro
 165 170 175
 Glu Leu Glu Glu Leu Arg Asn Lys His Ser Ala Arg Phe Lys Leu Trp
 180 185 190

Tyr Thr Leu Asp Arg Ala Pro Glu Ala Trp Asp Tyr Gly Gln Gly Phe
 195 200 205
 Val Asn Glu Glu Met Ile Arg Asp His Leu Pro Pro Pro Glu Glu Glu
 210 215 220
 Pro Leu Val Leu Met Cys Gly Pro Pro Pro Met Ile Gln Tyr Ala Cys
 225 230 235 240
 Leu Pro Asn Leu Asp His Val Gly His Pro Thr Glu Arg Cys Phe Val
 245 250 255
 Phe

<210> 2324

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2324

Met Ala Gly Gly Lys Gly Ala Lys Gln Ile Phe Pro Thr Phe Tyr Leu
 1 5 10 15
 Ala Asn Leu Ser Phe Ala Ala Val Met Cys Gln Val Leu Gly Cys Trp
 20 25 30
 Gly Ile Pro Ser Glu Gln Ser Leu Phe Ser Thr Leu Glu Glu Leu Arg
 35 40 45
 Glu Lys Glu Ile Asp Asn Tyr Cys Val Met Arg Leu Gln Thr Glu Gly
 50 55 60
 Leu Ala Ser Ala His Pro Ser Trp Ala Ser Arg Gly His Cys Ser Ile
 65 70 75 80
 Thr Thr Arg Pro Cys Thr Pro Ala Ser Pro Pro Ser Pro Ser Trp Ala
 85 90 95
 Trp Ala Pro Leu
 100

<210> 2325

<211> 449

<212> PRT

<213> Homo sapiens

<400> 2325

```

Met Met Leu Gly Thr Glu Gly Gly Glu Gly Phe Val Val Lys Val Arg
  1              5              10              15
Gly Leu Pro Trp Ser Cys Ser Ala Asp Glu Val Gln Arg Phe Phe Ser
      20              25              30
Asp Cys Lys Ile Gln Asn Gly Ala Gln Gly Ile Arg Phe Ile Tyr Thr
      35              40              45
Arg Glu Gly Arg Pro Ser Gly Glu Ala Phe Val Glu Leu Glu Ser Glu
      50              55              60
Asp Glu Val Lys Leu Ala Leu Lys Lys Asp Arg Glu Thr Met Gly His
      65              70              75              80
Arg Tyr Val Glu Val Phe Lys Ser Asn Asn Val Glu Met Asp Trp Val
      85              90              95
Leu Lys His Thr Gly Pro Asn Ser Pro Asp Thr Ala Asn Asp Gly Phe
      100             105             110
Val Arg Leu Arg Gly Leu Pro Phe Gly Cys Ser Lys Glu Glu Ile Val
      115             120             125
Gln Phe Phe Ser Gly Leu Glu Ile Val Pro Asn Gly Ile Thr Leu Pro
      130             135             140
Val Asp Phe Gln Gly Arg Ser Thr Gly Glu Ala Phe Val Gln Phe Ala
      145             150             155             160
Ser Gln Glu Ile Ala Glu Lys Ala Leu Lys Lys His Lys Glu Arg Ile
      165             170             175
Gly His Arg Tyr Ile Glu Ile Phe Lys Ser Ser Arg Ala Glu Val Arg
      180             185             190
Thr His Tyr Asp Pro Pro Arg Lys Leu Met Ala Met Gln Arg Pro Gly
      195             200             205
Pro Tyr Asp Arg Pro Gly Ala Gly Arg Gly Tyr Asn Ser Ile Gly Arg
      210             215             220
Gly Ala Gly Phe Glu Arg Met Arg Arg Gly Ala Tyr Gly Gly Gly Tyr
      225             230             235             240
Gly Gly Tyr Asp Asp Tyr Asn Gly Tyr Asn Asp Gly Tyr Gly Phe Gly

```

	245		250		255										
Ser	Asp	Arg	Phe	Gly	Arg	Asp	Leu	Asn	Tyr	Cys	Phe	Ser	Gly	Met	Ser
	260				265				270						
Asp	His	Arg	Tyr	Gly	Asp	Gly	Gly	Ser	Thr	Phe	Gln	Ser	Thr	Thr	Gly
	275				280				285						
His	Cys	Val	His	Met	Arg	Gly	Leu	Pro	Tyr	Arg	Ala	Thr	Glu	Asn	Asp
	290				295				300						
Ile	Tyr	Asn	Phe	Phe	Ser	Pro	Leu	Asn	Pro	Val	Arg	Val	His	Ile	Glu
305			310						315				320		
Ile	Gly	Pro	Asp	Gly	Arg	Val	Thr	Gly	Glu	Ala	Asp	Val	Glu	Phe	Ala
			325					330					335		
Thr	His	Glu	Asp	Ala	Val	Ala	Ala	Met	Ser	Lys	Asp	Lys	Ala	Asn	Met
	340							345					350		
Gln	His	Arg	Tyr	Val	Glu	Leu	Phe	Leu	Asn	Ser	Thr	Ala	Gly	Ala	Ser
	355							360					365		
Gly	Gly	Ala	Tyr	Glu	His	Arg	Tyr	Val	Glu	Leu	Phe	Leu	Asn	Ser	Thr
	370							375					380		
Ala	Gly	Ala	Ser	Gly	Gly	Ala	Tyr	Gly	Ser	Gln	Met	Met	Gly	Gly	Met
385			390						395				400		
Gly	Leu	Ser	Asn	Gln	Ser	Ser	Tyr	Gly	Gly	Pro	Ala	Ser	Gln	Gln	Leu
			405					410					415		
Ser	Gly	Gly	Tyr	Gly	Gly	Gly	Tyr	Gly	Gly	Gln	Ser	Ser	Met	Ser	Gly
	420							425					430		
Tyr	Asp	Gln	Val	Leu	Gln	Glu	Asn	Ser	Ser	Asp	Phe	Gln	Ser	Asn	Ile
	435							440					445		
Ala															

<210> 2326

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2326

Met Asp Ile Pro Lys Cys Tyr Pro Pro Cys Lys Val Ser Trp Pro Pro
 1 5 10 15
 Lys Leu Glu Asp Val Thr Asp Pro Pro Leu Pro Asn Thr Glu Gly Ser
 20 25 30
 Cys Cys Cys Ser His Gly His Pro Phe Thr Gln Pro Ala Ser Leu Lys
 35 40 45
 Cys Arg Leu Pro Ser His Pro Ser Leu Lys Ala Pro Val Leu Val Thr
 50 55 60
 Leu Pro Ile Thr Ala Gln Thr Arg Ala His Tyr Val Pro Glu Ala Glu
 65 70 75 80
 Asp Phe Gln Arg Asn Tyr Leu Phe Val Lys Ile Gln Ser Asn Ile Tyr
 85 90 95
 Ile Thr Tyr Leu Tyr His Gln Tyr Cys Leu His Met Phe
 100 105

<210> 2327

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2327

Met Gly Arg Ser Gly Cys Gly Ser Arg Gly Gly Ile Leu Ser Trp Arg
 1 5 10 15
 Ala Pro Gln Arg Ser Pro Gly Ser Leu Ser Pro Trp Leu Leu Gly Arg
 20 25 30
 Arg Gly Arg Arg Pro Trp Gly Ser Ser Arg Gly Leu Gly Gly Gly Asp
 35 40 45
 Arg Trp Leu Gly Met Glu Glu Ala Lys Pro Arg Ala Phe Ser Pro Ala
 50 55 60
 Pro Ala Gly Asp Phe Gln Ala Pro Ser Thr Ala Asp Arg Ala Arg Ala
 65 70 75 80
 Arg Gly Arg Trp Cys Gly Asp Leu Pro Gly Leu Trp Gly His Glu Arg
 85 90 95
 Leu Pro Asp Ala Leu Ala Pro Gln Ala Leu Leu Val Thr Gly Thr Gly
 100 105 110

Leu Gly Ser Ile Trp Ala Thr Ala Val Thr Leu Arg Pro Leu Leu Arg
 115 120 125
 Pro Gly Gln Gly Ser Val Gly Ala Gly Arg Lys Gly Thr His Ser Phe
 130 135 140
 Leu Gly Ala Pro Val Trp Pro Ala
 145 150

<210> 2328

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2328

Met Asn His Glu Trp Ile Gly Asn Glu Trp Leu Pro Ser Leu Gly Leu
 1 5 10 15
 Pro Gln Tyr Arg Ser Tyr Phe Met Glu Cys Leu Val Asp Ala Arg Met
 20 25 30
 Leu Asp His Leu Thr Lys Lys Asp Leu Arg Val His Leu Lys Met Val
 35 40 45
 Asp Ser Phe His Arg Thr Ser Leu Gln Tyr Gly Ile Met Cys Leu Lys
 50 55 60
 Arg Leu Asn Tyr Asp Arg Lys Glu Leu Glu Lys Arg Arg Glu Glu Ser
 65 70 75 80
 Gln His Glu Ile Lys Asp Val Leu Val Trp Thr Asn Asp Gln Val Val
 85 90 95
 His Trp Val Gln Ser Ile Gly Leu Arg Asp Tyr Ala Gly Asn Leu His
 100 105 110
 Glu Ser Gly Val His Gly Ala Leu Leu Ala Leu Asp Glu Asn Phe Asp
 115 120 125
 His Asn Thr Leu Ala Leu Ile Leu Gln Ile Pro Thr Gln Asn Thr Gln
 130 135 140
 Ala Arg Gln Val Met Glu Arg Glu Phe Asn Asn Leu Leu Ala Leu Gly
 145 150 155 160
 Thr Asp Arg Lys Leu Asp Asp Gly Asp Asp Lys Val Phe Arg Arg Ala
 165 170 175

Pro Ser Trp Arg Lys Arg Phe Arg Pro Arg Glu His His Gly Arg Gly
 180 185 190
 Gly Met Leu Ser Ala Ser Ala Glu Thr Leu Pro Ala Gly Phe Arg Val
 195 200 205
 Ser Thr Leu Gly Thr Leu Gln Pro Pro Pro Ala Pro Pro Lys Lys Ile
 210 215 220
 Met Pro Glu Gly Glu
 225

<210> 2329

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2329

Met Asn Arg Leu Leu Phe Phe Lys Ser Gln Gly Leu Ala Leu Leu Pro
 1 5 10 15
 Arg Leu Lys Cys Ser Gly Ala Ile Ile Ala His Cys Asn Phe Glu Leu
 20 25 30
 Leu Gly Ser Ser Asn Phe Pro Asp Leu Ala Ser Glu Arg Ala Gly Thr
 35 40 45
 Thr Ala Phe Gly Thr Val Val Leu Ile Arg Leu Ser Asn His Ile Ala
 50 55 60
 Met Leu Trp Asp Phe Trp Arg Arg Lys Gln Thr Ile Trp Ser Thr Arg
 65 70 75 80
 Thr Leu Asn His His His Leu Val Ser Cys Ile Ser Phe Ile Ile Ile
 85 90 95
 Phe Glu Thr Glu Ser His Ser Val Thr Gln Ala Gly Val Gln Trp Cys
 100 105 110
 Asn Leu Ser Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Arg Phe Ser
 115 120 125
 Cys Leu Thr Leu Pro Thr Ser Trp Asp Tyr Met Gln Met Pro Pro Cys
 130 135 140
 Leu Ala Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Tyr Trp
 145 150 155 160

Pro Gly Trp Ser Arg Thr Pro Asp Cys Arg
 165 170

<210> 2330

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2330

Met Pro Val Pro Gly Leu Pro Gln Arg Ala Glu Gln Val Cys Phe Ile
 1 5 10 15
 Phe Gly Leu Leu Leu Leu Glu Cys Leu Thr Leu Phe Val Val Leu Phe
 20 25 30
 Pro Trp Tyr Leu Ala Pro Ser Gly Cys Phe Ile Ile Cys Gly Leu Asn
 35 40 45
 Val Glu Asp Ser Ala Gly Glu Pro Val Glu Val Glu Thr Gly Gly Glu
 50 55 60
 Arg Met Leu Leu Gly Cys Gly Asn Gly Phe Leu Lys Cys Trp Asn Phe
 65 70 75 80
 Phe His Gly Pro Leu Ser Ser Val Gly Arg Asn Pro Gln Ala Tyr Pro
 85 90 95
 Val Phe Val Phe Gln Asn Tyr Ser Tyr
 100 105

<210> 2331

<211> 256

<212> PRT

<213> Homo sapiens

<400> 2331

Met Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp
 1 5 10 15
 Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr
 20 25 30

Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu
 35 40 45
 Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser
 50 55 60
 Ala Cys Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser
 65 70 75 80
 Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp
 85 90 95
 Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr
 100 105 110
 Leu Ser Ala Cys Cys Leu Ser Ser Met Thr Leu Ser Ala Cys Gly Leu
 115 120 125
 Ser Ser Thr Thr Leu Phe Ala Cys Arg Leu Ser Ser Val Thr Val Ser
 130 135 140
 Thr Cys Ser Leu Ser Ser Val Thr Leu Ser Ala Cys Gly Leu Ser Arg
 145 150 155 160
 Val Thr Leu Ser Ala Cys Gly Leu Ser Ser Met Thr Pro Ser Ala Cys
 165 170 175
 Gly Leu Ser Arg Val Thr Leu Ser Ala Cys His Leu Ser Ser Met Thr
 180 185 190
 Val Ser Thr Cys Gly Leu Ser Ser Met Thr Leu Phe Ala Cys Gly Leu
 195 200 205
 Ser Ser Met Thr Leu Ser Ala Cys Arg Leu Ser Asn Val Thr Leu Ser
 210 215 220
 Asn Phe Pro Leu Ala Ser Ala Pro Gly Glu Val Ala Phe Ser Leu Pro
 225 230 235 240
 Cys Cys Leu Leu Phe Ser Cys Lys Val Ser Ser Asp Phe Leu Tyr Pro
 245 250 255

<210> 2332

<211> 255

<212> PRT

<213> Homo sapiens

<400> 2332

Met Pro Val Glu Ser Val Gly Ala Met Glu Pro Leu Pro Gly Ala Leu
 1 5 10 15
 Gln Trp Gly Val Gln Ala Thr Leu Glu Arg Gly Arg Gly Pro Leu Trp
 20 25 30
 Arg Arg Leu Pro Gly Ala Met Gly Ser Arg Gln Lys Ala Ala Thr Glu
 35 40 45
 Gly Pro Ala Gln Val Arg Ala Ala Arg Pro Lys Thr Leu Tyr Ser Pro
 50 55 60
 Trp Thr Val Pro Thr Ser Ala His Thr Ala Val Pro Thr Ser Gly Thr
 65 70 75 80
 Ala Phe Ser Val Cys Arg Asp Pro Ala Ala Gln Ala Ala Ala Val Pro
 85 90 95
 Leu Ala Ser Trp Ser Arg Met Gly Ala Val Cys Arg Ser Pro Leu Ala
 100 105 110
 Ala Val Ala Ser Pro Val Pro Met Pro Leu Gly Ser Trp Pro Arg Pro
 115 120 125
 Arg Arg Cys Ser Trp Thr Ala Lys Thr Ala Pro Val Ser Thr Ser Pro
 130 135 140
 Trp Cys Ala His Thr Arg Ser Val Gln Ser Leu Gly Leu Gly Gln Pro
 145 150 155 160
 Gly Ala Val Ala Arg Pro Pro Val Val Gly Ala Leu Trp Ser Asp Val
 165 170 175
 Gly Leu Val Arg Gly Val Leu Gly Trp His His Ala Arg Pro Arg Thr
 180 185 190
 Gln Ser Asn Gly Arg Ser Val Thr Cys Ser Pro Ala Leu Ser Ala Pro
 195 200 205
 Leu Ala Arg Cys Leu Val Pro Val Pro Pro His Ala Arg Ala Ser Ala
 210 215 220
 Gly Ile Cys Ser Leu Val Pro Ser Val Cys Arg Ser Pro Ala Ser Leu
 225 230 235 240
 Ala Val Ala Ala Leu Glu Gly Arg Trp Val Arg Gly Ala Val Ser
 245 250 255

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2333

```

Met Ala Arg Ala Gly Val Asp Val Gly Leu Gly Glu Glu Gly Ala His
  1             5             10            15
Gly Arg Ala Pro His Leu Pro Gly Gly Leu Leu Gly Cys Phe Leu Trp
          20            25            30
Glu Gln Leu Val His Val Pro Ala Arg Pro Ser Pro Ser Gly Ile Arg
          35            40            45
Arg Gly Phe Ser Trp Thr Leu Trp Pro Pro Pro Pro Pro Arg Ala Arg
          50            55            60
Val Lys Glu His Pro Ser Pro Leu Val Thr Glu Thr Lys Arg Ser Gly
          65            70            75            80
Pro Ser Arg Gln Val Lys Val Gln Asp Ala Ala Ser Pro Arg Leu Leu
          85            90            95
Pro Glu Gly Gly Val Glu Pro Pro Arg Ala Pro Asp Arg Ala Ala Ala
          100           105           110
Arg Ala Phe Ala Gly Phe Phe Pro Leu His Pro Leu Leu Ile Lys Val
          115           120           125
Gly Ser Leu His Asp Asn Arg Ser Glu Arg Gly
          130           135

```

<210> 2334

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2334

```

Met Asn Phe Asp His Lys Asn Glu Thr Leu Ser Ile Ser Val Gln Pro
  1             5             10            15
Gly Glu Gly Asn Lys Ala Ala Phe Asn Asp Met Arg Ala Leu Ser Gly
          20            25            30
Gly Glu Arg Ser Phe Ser Thr Val Cys Phe Ile Leu Ser Leu Trp Ser

```

35 40 45
 Ile Ala Glu Ser Pro Phe Arg Cys Leu Asp Glu Phe Asp Val Tyr Met
 50 55 60
 Asp Met Val Asn Arg Arg Ile Ala Met Asp Leu Ile Leu Lys Met Ala
 65 70 75 80
 Asp Ser Gln Arg Phe Arg Gln Phe Ile Leu Leu Thr Pro Gln Ser Met
 85 90 95
 Ser Ser Leu Pro Ser Ser Lys Leu Ile Arg Ile Leu Arg Met Ser Asp
 100 105 110
 Pro Glu Arg Gly Gln Thr Thr Leu Pro Phe Arg Pro Val Thr Gln Glu
 115 120 125
 Glu Asp Asp Asp Gln Arg
 130

<210> 2335

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2335

Met Arg Lys Gly Ile Gly Thr His Arg Ser Asp Asp Asn Gln Ser Pro
 1 5 10 15
 Leu Met Met Pro Ser Val Thr Gln Gly Ser Pro Gln Pro Ala Gln Pro
 20 25 30
 Asp Ser Pro Ala Cys Phe Ser Thr Ala Tyr Leu Gln Gln Ser Asn Cys
 35 40 45
 Ile Phe Val Thr Ala Asn Tyr Ile Pro Phe Ala Phe Lys Cys Leu His
 50 55 60
 Phe Ser Tyr Cys Thr Gly Tyr Leu Phe Leu Ser Ala Gln His Pro Val
 65 70 75 80
 Ser Pro Pro Phe Gly Ser Ser Pro Ser Gln Phe His Val Leu Asn Pro
 85 90 95
 Phe Leu Leu Leu Val Lys Ile Ile Phe Cys Phe Val
 100 105

<210> 2336

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2336

```

Met Gly Pro Leu Thr Arg Trp Ser Arg Ser Asn Glu Val Thr Arg Ala
 1             5             10             15
Ser Pro Asn Pro Ile Cys Trp Cys Asn Tyr Lys Glu Ile Arg Thr Gln
          20             25             30
Thr Cys Thr Glu Gly Arg Pro Ser Thr Ser Gln Gly Gly Arg Pro Pro
          35             40             45
Gly Asn Gln Pro Cys Gln Gln Met Met Val Cys Pro Phe Gly Ala Lys
          50             55             60
Pro Gln Glu Ala Ser Val Leu Ser Leu Thr Leu Gly Ser Leu Leu Ser
          65             70             75             80
Arg Val Arg Trp Leu Gly Leu Ala Cys Trp Arg Leu Thr Gly Pro Trp
          85             90             95
Gly Lys Ser Ser Trp Ser Lys Val Phe Trp Ala Ser Gln His Asn Pro
          100            105            110
Gln Pro Thr Val Gln Ala Val Asp Arg Tyr Arg Ser Lys Ser Ser Gln
          115            120            125
Asp Gln Pro Asn Ser Asp Gln Gln Asn Cys Leu Ala Gly Ser
          130            135            140

```

<210> 2337

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2337

```

Met Ser Ala Cys Pro Ala Gly Thr Ala Gln Arg Pro Arg Pro Gly Arg
 1             5             10             15
Thr Leu Arg Val Thr Thr Leu Pro Thr Ala Pro Leu Ala Ile Leu Pro

```


115

120

<210> 2339

<211> 273

<212> PRT

<213> Homo sapiens

<400> 2339

```

Met Glu Gly Glu Ile Trp Gly Leu Ala Thr His Pro Ser Lys Asp Leu
  1             5             10             15
Phe Ile Ser Ala Ser Asn Asp Gly Thr Ala Arg Ile Trp Asp Leu Ala
      20             25             30
Asp Lys Lys Leu Leu Asn Lys Val Ser Leu Gly His Ala Ala Arg Cys
      35             40             45
Ala Ala Tyr Ser Pro Asp Gly Glu Met Val Ala Ile Gly Met Lys Asn
      50             55             60
Gly Glu Phe Val Ile Leu Leu Val Asn Ser Leu Lys Val Trp Gly Lys
      65             70             75             80
Lys Arg Asp Arg Lys Ser Ala Ile Gln Asp Ile Arg Ile Ser Pro Asp
      85             90             95
Asn Arg Phe Leu Ala Val Gly Ser Ser Glu His Thr Val Asp Phe Tyr
      100            105            110
Asp Leu Thr Gln Gly Thr Asn Leu Asn Arg Ile Gly Tyr Cys Lys Asp
      115            120            125
Ile Pro Ser Phe Val Ile Gln Met Asp Phe Ser Ala Asp Gly Lys Tyr
      130            135            140
Ile Gln Val Ser Thr Gly Ala Tyr Lys Arg Gln Val His Glu Val Pro
      145            150            155            160
Leu Gly Lys Gln Val Thr Glu Ala Val Val Ile Glu Lys Ile Thr Trp
      165            170            175
Ala Ser Trp Thr Ser Val Leu Gly Asp Glu Val Ile Gly Ile Trp Pro
      180            185            190
Arg Asn Ala Asp Lys Ala Asp Val Asn Cys Ala Cys Val Thr His Ala
      195            200            205
Gly Leu Asn Ile Val Thr Gly Asp Asp Phe Gly Leu Val Lys Leu Phe

```

210 215 220
 Asp Phe Pro Cys Thr Glu Lys Phe Ala Lys His Lys Arg Tyr Phe Gly
 225 230 235 240
 His Ser Ala His Val Thr Asn Ile Arg Phe Ser Tyr Asp Asp Lys Tyr
 245 250 255
 Val Val Ser Thr Gly Gly Asp Asp Cys Ser Val Phe Val Trp Arg Cys
 260 265 270
 Leu

<210> 2340

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2340

Met Gln Gln Asn Glu Ala Ala Gln Gln Glu Val Pro Phe Gly Pro Gln
 1 5 10 15
 Thr Thr Ala Val Leu Trp Asp His Lys Gly Gly Val Ala His Ala Val
 20 25 30
 Asn His Gln Ala Asn Gly Ser Val His Leu Leu His Gln Asp Gly Val
 35 40 45
 Pro Leu Val Val Ile His Met Ala Leu Gly Gly Lys Val Ser Ile Glu
 50 55 60
 Thr Thr Gln Thr Val Val Phe Gln Leu Gly His Ser Thr Gly Gln Leu
 65 70 75 80
 Gln Arg Lys Ser Lys Gln Pro Ser Ala Lys Pro Arg Ser Pro Cys Lys
 85 90 95
 Pro Ala Lys Arg Leu Pro Val
 100

<210> 2341

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2341

```

Met Gly Val Pro Arg Ser Phe Arg Gly Ser Pro Arg Val Pro Pro Pro
 1             5             10             15
Gly Pro Pro Arg Trp Thr Ser Leu Arg Pro Leu Pro Ser Leu Asp His
      20             25             30
Ile Ser Ala Pro Thr Val Pro Asp Ile Leu Ala Leu His Ala Thr Ser
      35             40             45
Arg Pro Met Ile Met Pro Gln Phe Pro Ser Pro Leu Arg Gln Pro Ser
      50             55             60
Pro Cys Arg Leu Pro Pro Ser Glu Arg Val Gln Leu Gln Leu Ser Pro
      65             70             75             80
Gly Ser Leu Pro Ala Ser Gly Pro His Leu Thr Pro Ala Ser Arg Phe
      85             90             95
Pro Leu Pro Ala Arg Leu Asn Pro Ala Ala Ser Ala Pro Cys Leu Val
      100            105            110
Pro Ser Ala Trp Pro Leu Pro Pro Ala Ala Gly Ser Gly Arg Arg
      115            120            125

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<210> 2342

<211> 289

<212> PRT

<213> Homo sapiens

<400> 2342

```

Met Gly Cys Ile Gly Ser Arg Thr Val Gly Asn Glu Val Ile Ala Val
 1             5             10             15
Asp Trp Lys Gly Leu Lys Asp Val Asp Gln Ile Asn Met Asp Ser Thr
      20             25             30
Ser Ser Leu His Gly Ser Ser Leu His Arg Pro Ser Thr Glu Gln Thr
      35             40             45
Arg Thr Asp Phe Ser Trp Asp Gly Ile Asn Leu Ser Met Glu Asp Thr
      50             55             60
Thr Ser Ile Leu Pro Lys Leu Lys Arg Asn Ser Asn Ala Tyr Gly Ile

```

65		70		75		80									
Gly	Ala	Leu	Ala	Lys	Ser	Ser	Phe	Ser	Gly	Ile	Ser	Arg	Ser	Met	Lys
		85						90						95	
Asp	His	Val	Thr	Lys	Pro	Thr	Ala	Met	Gly	Gln	Gly	Arg	Val	Ala	His
		100						105						110	
Met	Ile	Glu	Trp	Gln	Gly	Trp	Gly	Lys	Thr	Pro	Ala	Val	Gln	Pro	Gln
		115						120						125	
His	Ser	His	Glu	Ser	Val	Arg	Arg	Asp	Thr	Asp	Ala	Tyr	Ser	Asp	Leu
		130						135						140	
Ser	Asp	Gly	Glu	Lys	Glu	Ala	Arg	Phe	Leu	Ala	Gly	Val	Met	Glu	Gln
145				150					155					160	
Phe	Ala	Ile	Ser	Glu	Ala	Thr	Leu	Met	Ala	Trp	Ser	Ser	Met	Asp	Gly
		165							170					175	
Glu	Asp	Met	Ser	Val	Asn	Ser	Thr	Gln	Glu	Pro	Leu	Gly	Cys	Asn	Tyr
		180							185					190	
Ser	Asp	Asn	Tyr	Gln	Glu	Leu	Met	Asp	Ser	Gln	Asp	Ala	Leu	Ala	Gln
		195							200					205	
Ala	Pro	Met	Asp	Gly	Leu	Thr	Leu	Thr	Cys	Pro	Arg	Val	Cys	Thr	Val
		210							215					220	
Trp	Gly	Arg	Gln	Met	Pro	Gly	Lys	Pro	Ala	Ile	Ser	Pro	Ser	Leu	Pro
225				230					235					240	
Leu	Arg	Pro	Gln	Asp	Pro	Ile	Leu	Gly	Leu	His	Leu	Met	Thr	His	Asn
		245							250					255	
Pro	Ala	Cys	Met	Lys	Trp	Asp	Leu	Pro	Asn	Gln	Leu	Gln	Asp	Thr	Leu
		260							265					270	
Leu	Trp	Ser	Leu	His	Leu	Cys	Trp	Gly	Glu	Thr	Leu	Thr	Gly	Leu	Arg
		275							280					285	
Gly															

<210> 2343

<211> 118

<212> PRT

<213> Homo sapiens

<400> 2343

Met Cys Gln His Glu Gly Arg Leu Gln Phe Ile His Glu Arg Gln Glu
 1 5 10 15
 Lys Glu Asn Ser Asn Leu Glu Ser Ser Val Gly His Gln Ala Leu Thr
 20 25 30
 Phe Pro His Leu Ala His Tyr Pro Val Lys Ala Val Ala Ala His Leu
 35 40 45
 Val Ala Leu His Gly Thr Leu Pro Lys Ala Ser Ser Ser Ile Leu Gly
 50 55 60
 Leu Gln Arg Ile Gln Val Pro Ser Ile Gln Trp Gly Ser Ser Thr Ser
 65 70 75 80
 Glu Val Pro Leu Pro Pro Ser Ser Ala Ser Cys Leu Ala Ile Pro Ser
 85 90 95
 Ile Pro Phe Gly Asp Asp Tyr Leu Glu Asn Lys Glu Arg Tyr Gly Met
 100 105 110
 Gly Phe Pro Ile Val Cys
 115

<210> 2344

<211> 1005

<212> PRT

<213> Homo sapiens

<400> 2344

Met Glu Lys Gln Arg Ala Leu Val Ala Ala Lys Asp Gly Asp Val Ala
 1 5 10 15
 Thr Leu Glu Arg Leu Leu Glu Ala Gly Ala Leu Gly Pro Gly Ile Thr
 20 25 30
 Asp Ala Leu Gly Ala Gly Leu Val His His Ala Thr Arg Ala Gly His
 35 40 45
 Leu Asp Cys Val Lys Phe Leu Val Gln Arg Ala Gln Leu Pro Gly Asn
 50 55 60
 Gln Arg Ala His Asn Gly Ala Thr Pro Ala His Asp Ala Ala Ala Thr
 65 70 75 80
 Gly Ser Leu Ala Glu Leu Cys Trp Leu Val Arg Glu Gly Gly Cys Gly

	85	90	95
Leu Gln Asp Gln Asp Ala Ser Gly Val Ser Pro Leu His Leu Ala Ala			
100	105	110	
Arg Phe Gly His Pro Val Leu Val Glu Trp Leu Leu His Glu Gly His			
115	120	125	
Ser Ala Thr Leu Glu Thr Arg Glu Gly Ala Arg Pro Leu His His Ala			
130	135	140	
Ala Val Ser Gly Asp Leu Thr Cys Leu Lys Leu Leu Thr Ala Ala His			
145	150	155	160
Gly Ser Ser Val Asn Arg Arg Thr Arg Ser Gly Ala Ser Pro Leu Tyr			
165	170	175	
Leu Ala Cys Gln Glu Gly His Leu His Leu Ala Gln Phe Leu Val Lys			
180	185	190	
Asp Cys Gly Ala Asp Val His Leu Arg Ala Leu Asp Gly Met Ser Ala			
195	200	205	
Leu His Ala Ala Ala Ala Arg Gly His Tyr Ser Leu Val Val Trp Leu			
210	215	220	
Val Thr Phe Thr Asp Ile Gly Leu Thr Ala Arg Asp Asn Glu Gly Ala			
225	230	235	240
Thr Ala Leu His Phe Ala Ala Arg Gly Gly His Thr Pro Ile Leu Asp			
245	250	255	
Arg Leu Leu Leu Met Gly Thr Pro Ile Leu Arg Asp Ser Trp Gly Gly			
260	265	270	
Thr Pro Leu His Asp Ala Ala Glu Asn Gly Gln Met Glu Cys Cys Gln			
275	280	285	
Thr Leu Val Ser His His Val Asp Pro Ser Leu Arg Asp Glu Asp Gly			
290	295	300	
Tyr Thr Ala Ala Asp Leu Ala Glu Tyr His Gly His Arg Asp Cys Ala			
305	310	315	320
Gln Tyr Leu Arg Glu Val Ala Gln Pro Val Pro Leu Leu Met Thr Pro			
325	330	335	
Pro Pro Pro Pro Phe Pro Pro Pro Pro Leu Leu Ala Thr Arg Arg Ser			
340	345	350	
Leu Glu Asp Gly Arg Arg Gly Gly Pro Gly Pro Gly Asn Pro Ser Pro			
355	360	365	
Met Ser Leu Ser Pro Ala Trp Pro Gly His Pro Asp Gln Pro Leu Pro			

370	375	380	
Arg Glu Gln Met Thr Ser Pro Ala Pro Pro Arg Ile Ile Thr Ser Ala			
385	390	395	400
Thr Ala Asp Pro Glu Gly Thr Glu Thr Ala Leu Ala Gly Asp Thr Ser			
	405	410	415
Asp Gly Leu Ala Ala Leu Gln Leu Asp Gly Leu Pro Ser Gly Asp Ile			
	420	425	430
Asp Gly Leu Val Pro Thr Arg Asp Glu Arg Gly Gln Pro Ile Pro Glu			
	435	440	445
Trp Lys Arg Gln Val Met Val Arg Lys Leu Gln Ala Arg Leu Gly Ala			
	450	455	460
Glu Ser Ser Ala Glu Ala Gln Asp Asn Gly Gly Ser Ser Gly Pro Thr			
465	470	475	480
Glu Gln Ala Ala Trp Arg Tyr Ser Gln Thr His Gln Ala Ile Leu Gly			
	485	490	495
Pro Phe Gly Glu Leu Leu Thr Glu Asp Asp Leu Val Tyr Leu Glu Lys			
	500	505	510
Gln Ile Ala Asp Leu Gln Leu Arg Arg Arg Cys Gln Glu Tyr Glu Ser			
	515	520	525
Glu Leu Gly Arg Leu Ala Ala Glu Leu Gln Ala Leu Leu Pro Glu Pro			
	530	535	540
Leu Val Ser Ile Thr Val Asn Ser His Phe Leu Pro Arg Ala Pro Gly			
545	550	555	560
Leu Glu Val Glu Glu Ala Ser Ile Pro Ala Ala Glu Pro Ala Gly Ser			
	565	570	575
Ala Glu Ala Ser Glu Val Ala Pro Gly Val Gln Pro Leu Pro Phe Trp			
	580	585	590
Cys Ser His Ile Ser Arg Leu Val Arg Ser Leu Ser Leu Leu Leu Lys			
	595	600	605
Gly Met His Gly Leu Val Gln Gly Asp Glu Lys Pro Ser Thr Arg Pro			
	610	615	620
Leu Gln Asp Thr Cys Arg Glu Ala Ser Ala Ser Pro Pro Arg Ser Glu			
625	630	635	640
Ala Gln Arg Gln Ile Gln Glu Trp Gly Val Ser Val Arg Thr Leu Arg			
	645	650	655
Gly Asn Phe Glu Ser Ala Ser Gly Pro Leu Cys Gly Phe Asn Pro Gly			

660	665	670
Pro Cys Glu Pro Gly Ala Gln His Arg Gln Cys Leu Ser Gly Cys Trp		
675	680	685
Pro Ala Leu Pro Lys Pro Arg Ser Gly Leu Ala Ser Gly Glu Pro Arg		
690	695	700
Pro Gly Asp Thr Glu Glu Ala Ser Asp Ser Gly Ile Ser Cys Glu Glu		
705	710	715
Val Pro Pro Glu Ala Gly Ala Ala Ala Gly Pro Asp Leu Ala Ser Leu		
725	730	735
Arg Lys Glu Arg Ile Ile Met Leu Phe Leu Ser His Trp Arg Arg Ser		
740	745	750
Ala Tyr Thr Pro Ala Leu Lys Thr Ala Ala Cys Arg Thr Leu Gly Ala		
755	760	765
Arg His Ala Gly Leu Arg Gly Gln Glu Ala Ala Arg Ser Pro Gly Pro		
770	775	780
Pro Ser Pro Pro Ser Glu Gly Pro Arg Leu Gly His Leu Trp Gln Gln		
785	790	795
Arg Ser Thr Ile Thr His Leu Leu Gly Asn Trp Lys Ala Ile Met Ala		
805	810	815
His Val Pro Ala Arg Gln Leu Arg Arg Leu Ser Arg Gln Pro Arg Gly		
820	825	830
Ala Leu Ser Pro Glu Gln Phe Leu Pro His Val Asp Gly Ala Pro Val		
835	840	845
Pro Tyr Ser Ser Leu Ser Leu Asp Leu Phe Met Leu Gly Tyr Phe Gln		
850	855	860
Leu Leu Glu Cys Asp Leu Pro Ala Glu Glu Arg Lys Leu Arg His Leu		
865	870	875
Leu Cys Phe Glu Val Phe Glu His Leu Gly Thr His Gly Trp Glu Ala		
885	890	895
Val Arg Ala Phe His Lys Ala Val Thr Asp Glu Val Ala Ala Gly Arg		
900	905	910
Arg Ala Trp Thr Asp Gly Phe Glu Asp Ile Lys Ala Arg Phe Phe Gly		
915	920	925
Ser Ser Gln Arg Pro Ala Trp Asp Thr Glu Pro Gly Arg Lys Ser Gly		
930	935	940
Leu Thr Leu Leu Gly Pro Leu Pro His Ala Thr Val Pro Cys Ser Gly		

945 950 955 960
Pro Glu Pro Thr Ala Gln Arg Leu Gly Ser Arg Ser Gln Gln Gly Ser
 965 970 975
Phe Asn Gly Glu Asp Ile Cys Gly Tyr Ile Asn Arg Ser Phe Ala Phe
 980 985 990
Trp Lys Glu Lys Glu Ala Glu Met Phe Asn Phe Gly Glu
 995 1000 1005

<210> 2345

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2345

[illegible]

<210> 2346

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2346

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Met Met Cys Met Met Thr Gly Ser Asp Val Arg Asp Asp Arg Leu Arg
  1             5             10             15
Arg Cys Val Ala Thr Gly Ser Asp His Val Cys Asp Asp Arg Leu Arg
      20             25             30
Cys Ala Leu Met Thr Gly Ser Asp Val Cys Asp Asp Trp Leu Arg Cys
      35             40             45

Ser Leu Met Thr Ser Ser Asp Val Cys Asp Asp Pro Leu Ser Ile Gln
      50             55             60
Cys Ala Ile Ala Leu Ala Arg Ser Arg Ser Arg Leu Pro Thr Arg Ser
      65             70             75             80
Gln Leu Pro Ala Val Pro Ala Ser Ala Ala Arg Trp Arg Gln Gly Pro
      85             90             95
His Glu Arg Arg Ala Phe Pro Cys Gly Cys Ser Leu Ala Gly Ser Pro
      100            105            110
Leu Arg Gly Leu Leu Arg Pro Ala Ser Pro Ser Gln Cys Ile Val Thr
      115            120            125
Thr Thr Leu Leu Ser Ser Asn Lys Gln Val Arg Cys Arg Trp Lys Cys
      130            135            140
Gly Val Gly Val Trp Val Gly Glu Val Pro Gln Ala Ser Leu Ser Pro
      145            150            155            160
Cys Ala Ala Ala Gly Gly Tyr Ala Gly Gly Thr Glu Leu
      165            170

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<210> 2347

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2347

Met Gly Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser
 1 5 10 15
 Gly Asp Leu Pro Leu Leu Ala Ser Gln Ser Ala Gly Ile Thr Val Met
 20 25 30
 Ser His Arg Thr Trp Pro Gln Thr Phe Phe Phe Leu Ser Lys Glu Ile
 35 40 45
 Val Ser Trp Ile Thr Ser His Lys Ala Ser Gln Tyr Val Lys Gln Ile
 50 55 60
 Ile Val Leu Glu Val Thr Thr Trp Asn Ser Val His Gly Asp Ser Ser
 65 70 75 80
 Pro Cys Thr Pro His Thr Glu Thr Leu Gln Leu Met Leu Pro Thr Ser
 85 90 95
 Val Ser Lys Glu Thr Leu Asp Lys Ser Ser Pro Phe Ile His Arg Trp
 100 105 110
 Arg His Tyr Cys
 115

<210> 2348

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2348

Met Thr Cys Ser Lys Thr Lys Thr Asn Pro Thr Phe Lys Cys Lys Thr
 1 5 10 15
 Asp Phe Lys Ala Ile Phe Phe Phe Leu Phe Phe Ile Glu Thr Glu Ser
 20 25 30
 Arg Ser Val Ala Gln Ala Gly Val Gln Trp Cys Asp Leu Ser Ser Leu
 35 40 45
 Gln Pro Pro Pro Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro
 50 55 60
 Ser Ser Trp Asp Tyr Arg Cys Pro Pro Pro Arg Leu Val Thr Phe Cys

65 70 75 80
 Ile Phe Ser Arg Asp Arg Val Ser Ser Cys Trp Pro Gly Gly Leu Lys
 85 90 95
 Leu Leu Thr Ser Gly Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly
 100 105 110
 Val Thr Gly Met Ser His His Thr Trp Pro
 115 120

<210> 2349

<211> 1163

<212> PRT

<213> Homo sapiens

<400> 2349

Met Glu Arg Gly Ala Arg Glu Met Ala Ala Pro Gly Asp Cys Pro Ala
 1 5 10 15
 Gly Lys Ala Ala Gly Thr Ser Arg Pro Thr Arg Ser Leu Ser Thr Ala
 20 25 30
 Gln Leu Val Gln Pro Ser Gly Gly Leu Gln Ala Ser Val Ile Ser Asn
 35 40 45
 Ile Val Leu Met Lys Gly Gln Ala Lys Gly Leu Gly Phe Ser Ile Val
 50 55 60
 Gly Gly Lys Asp Ser Ile Tyr Gly Pro Ile Gly Ile Tyr Val Lys Thr
 65 70 75 80
 Ile Phe Ala Gly Gly Ala Ala Ala Ala Asp Gly Arg Leu Gln Glu Gly
 85 90 95
 Asp Glu Ile Leu Glu Leu Asn Gly Glu Ser Met Ala Gly Leu Thr His
 100 105 110
 Gln Asp Ala Leu Gln Lys Phe Lys Gln Ala Lys Lys Gly Leu Leu Thr
 115 120 125
 Leu Thr Val Arg Thr Arg Leu Thr Ala Pro Pro Ser Leu Cys Ser His
 130 135 140
 Leu Ser Pro Pro Leu Cys Arg Ser Leu Ser Ser Ser Thr Cys Ile Thr
 145 150 155 160
 Lys Asp Ser Ser Ser Phe Ala Leu Glu Ser Pro Ser Ala Pro Ile Ser

	165	170	175
Thr Ala Lys Pro Asn Tyr Arg Ile Met Val Glu Val Ser Leu Gln Lys			
	180	185	190
Glu Ala Gly Val Gly Leu Gly Ile Gly Leu Cys Ser Val Pro Tyr Phe			
	195	200	205
Gln Cys Ile Ser Gly Ile Phe Val His Thr Leu Ser Pro Gly Ser Val			
	210	215	220
Ala His Leu Asp Gly Arg Leu Arg Cys Gly Asp Glu Ile Val Glu Ile			
225	230	235	240
Ser Asp Ser Pro Val His Cys Leu Thr Leu Asn Glu Val Tyr Thr Ile			
	245	250	255
Leu Ser His Cys Asp Pro Gly Pro Val Pro Ile Ile Val Ser Arg His			
	260	265	270
Pro Asp Pro Gln Val Ser Glu Gln Gln Leu Lys Glu Ala Val Ala Gln			
	275	280	285
Ala Val Glu Asn Thr Lys Phe Gly Lys Glu Arg His Gln Trp Ser Leu			
	290	295	300
Glu Gly Val Lys Arg Leu Glu Ser Ser Trp His Gly Arg Pro Thr Leu			
305	310	315	320
Glu Lys Glu Arg Glu Lys Asn Ser Ala Pro Pro His Arg Arg Ala Gln			
	325	330	335
Lys Val Met Ile Arg Ser Ser Ser Asp Ser Ser Tyr Met Ser Gly Ser			
	340	345	350
Pro Gly Gly Ser Pro Gly Ser Gly Ser Ala Glu Lys Pro Ser Ser Asp			
	355	360	365
Val Asp Ile Ser Thr His Ser Pro Ser Leu Pro Leu Ala Arg Glu Pro			
	370	375	380
Val Val Leu Ser Ile Ala Ser Ser Arg Leu Pro Gln Glu Ser Pro Pro			
385	390	395	400
Leu Pro Glu Ser Arg Asp Ser His Pro Pro Leu Arg Leu Lys Lys Ser			
	405	410	415
Phe Glu Ile Leu Val Arg Lys Pro Met Ser Ser Lys Pro Lys Pro Pro			
	420	425	430
Pro Arg Lys Tyr Phe Lys Ser Asp Ser Asp Pro Gln Lys Ser Leu Glu			
	435	440	445
Glu Arg Glu Asn Ser Ser Cys Ser Ser Gly His Thr Pro Pro Thr Cys			

450	455	460	
Gly Gln Glu Ala Arg Glu Leu Leu Pro Leu Leu Leu Pro Gln Glu Asp			
465	470	475	480
Thr Ala Gly Arg Ser Pro Ser Ala Ser Ala Gly Cys Pro Gly Pro Gly			
	485	490	495
Ile Gly Pro Gln Thr Lys Ser Ser Thr Glu Gly Glu Pro Gly Trp Arg			
	500	505	510
Arg Ala Ser Pro Val Thr Gln Thr Ser Pro Ile Lys His Pro Leu Leu			
	515	520	525
Lys Arg Gln Ala Arg Met Asp Tyr Ser Phe Asp Thr Thr Ala Glu Asp			
	530	535	540
Pro Trp Val Arg Ile Ser Asp Cys Ile Lys Asn Leu Phe Ser Pro Ile			
545	550	555	560
Met Ser Glu Asn His Gly His Met Pro Leu Gln Pro Asn Ala Ser Leu			
	565	570	575
Asn Glu Glu Glu Gly Thr Gln Gly His Pro Asp Gly Thr Pro Pro Lys			
	580	585	590
Leu Asp Thr Ala Asn Gly Thr Pro Lys Val Tyr Lys Ser Ala Asp Ser			
	595	600	605
Ser Thr Val Lys Lys Gly Pro Pro Val Ala Pro Lys Pro Ala Trp Phe			
	610	615	620
Arg Gln Ser Leu Lys Gly Leu Arg Asn Arg Ala Ser Asp Pro Arg Gly			
625	630	635	640
Leu Pro Asp Pro Ala Leu Ser Thr Gln Pro Ala Pro Ala Ser Arg Glu			
	645	650	655
His Leu Gly Ser His Ile Arg Ala Ser Ser Ser Ser Ser Ser Ile Arg			
	660	665	670
Gln Arg Ile Ser Ser Phe Glu Thr Phe Gly Ser Ser Gln Leu Pro Asp			
	675	680	685
Lys Gly Ala Gln Arg Leu Ser Leu Gln Pro Ser Ser Gly Glu Ala Ala			
	690	695	700
Lys Pro Leu Gly Lys His Glu Glu Gly Arg Phe Ser Gly Leu Leu Gly			
705	710	715	720
Arg Gly Ala Ala Pro Thr Leu Val Pro Gln Gln Pro Glu Gln Val Leu			
	725	730	735
Ser Ser Gly Ser Pro Ala Ala Ser Glu Ala Arg Asp Pro Gly Val Ser			

740	745	750
Glu Ser Pro Pro Pro Gly Arg Gln Pro Asn Gln Lys Thr Leu Pro Pro		
755	760	765
Gly Pro Asp Pro Leu Leu Arg Leu Leu Ser Thr Gln Ala Glu Glu Ser		
770	775	780
Gln Gly Pro Val Leu Lys Met Pro Ser Gln Arg Ala Arg Ser Phe Pro		
785	790	795
Leu Thr Arg Ser Gln Ser Cys Glu Thr Lys Leu Leu Asp Glu Lys Thr		
805	810	815
Ser Lys Leu Tyr Ser Ile Ser Ser Gln Val Ser Ser Ala Val Met Lys		
820	825	830
Ser Leu Leu Cys Leu Pro Ser Ser Ile Ser Cys Ala Gln Thr Pro Cys		
835	840	845
Ile Pro Lys Glu Gly Ala Ser Pro Thr Ser Ser Ser Asn Glu Asp Ser		
850	855	860
Ala Ala Asn Gly Ser Ala Glu Thr Ser Ala Leu Asp Thr Gly Phe Ser		
865	870	875
Leu Asn Leu Ser Glu Leu Arg Glu Tyr Thr Glu Gly Leu Thr Glu Ala		
885	890	895
Lys Glu Asp Asp Asp Gly Asp His Ser Ser Leu Gln Ser Gly Gln Ser		
900	905	910
Val Ile Ser Leu Leu Ser Ser Glu Glu Leu Lys Lys Leu Ile Glu Glu		
915	920	925
Val Lys Val Leu Asp Glu Ala Thr Leu Lys Gln Leu Asp Gly Ile His		
930	935	940
Val Thr Ile Leu His Lys Glu Glu Gly Ala Gly Leu Gly Phe Ser Leu		
945	950	955
Ala Gly Gly Ala Asp Leu Glu Asn Lys Val Ile Thr Val His Arg Val		
965	970	975
Phe Pro Asn Gly Leu Ala Ser Gln Glu Gly Thr Ile Gln Lys Gly Asn		
980	985	990
Glu Val Leu Ser Ile Asn Gly Lys Ser Leu Lys Gly Thr Thr His His		
995	1000	1005
Asp Ala Leu Ala Ile Leu Arg Gln Ala Arg Glu Pro Arg Gln Ala Val		
1010	1015	1020
Ile Val Thr Arg Lys Leu Thr Pro Glu Ala Met Pro Asp Leu Asn Ser		

1025 1030 1035 1040
 Ser Thr Asp Ser Ala Ala Ser Ala Ser Ala Ala Ser Asp Val Ser Val
 1045 1050 1055
 Glu Ser Thr Glu Ala Thr Val Cys Thr Val Thr Leu Glu Lys Met Ser
 1060 1065 1070
 Ala Gly Leu Gly Phe Ser Leu Glu Gly Gly Lys Gly Ser Leu His Gly
 1075 1080 1085
 Asp Lys Pro Leu Thr Ile Asn Arg Ile Phe Lys Gly Ala Ala Ser Glu
 1090 1095 1100
 Gln Ser Glu Thr Val Gln Pro Gly Asp Glu Ile Leu Gln Leu Gly Gly
 1105 1110 1115 1120
 Thr Ala Met Gln Gly Leu Thr Arg Phe Glu Ala Trp Asn Ile Ile Lys
 1125 1130 1135
 Ala Leu Pro Asp Gly Pro Val Thr Ile Val Ile Arg Arg Lys Ser Leu
 1140 1145 1150
 Gln Ser Lys Glu Thr Thr Ala Ala Gly Asp Ser
 1155 1160

<210> 2350

<211> 306

<212> PRT

<213> Homo sapiens

<400> 2350

Met Ser Asn Lys Arg Ser Asn Ser Phe Arg Gln Ala Ile Leu Gln Gly
 1 5 10 15
 Asn Arg Arg Leu Ser Ser Lys Ala Leu Leu Glu Glu Lys Gly Leu Ser
 20 25 30
 Leu Ser Gln Arg Leu Ile Arg His Val Ala Tyr Glu Thr Leu Pro Arg
 35 40 45
 Glu Ile Asp Arg Lys Trp Tyr Tyr Asp Ser Tyr Thr Cys Cys Pro Pro
 50 55 60
 Pro Trp Phe Met Ile Thr Val Thr Leu Leu Glu Val Ala Phe Phe Leu
 65 70 75 80
 Tyr Asn Gly Val Ser Leu Gly Gln Phe Val Leu Gln Val Thr His Pro

	85	90	95
Arg Tyr Leu Lys Asn Ser Leu Val Tyr His Pro Gln Leu Arg Ala Gln			
100	105	110	
Val Trp Arg Tyr Leu Thr Tyr Ile Phe Met His Ala Gly Ile Glu His			
115	120	125	
Leu Gly Leu Asn Val Val Leu Gln Leu Leu Val Gly Val Pro Leu Glu			
130	135	140	
Met Val His Gly Ala Thr Arg Ile Gly Leu Val Tyr Val Ala Gly Val			
145	150	155	160
Val Ala Gly Ser Leu Ala Val Ser Val Ala Asp Met Thr Ala Pro Val			
165	170	175	
Val Gly Ser Ser Gly Gly Val Tyr Ala Leu Val Ser Ala His Leu Ala			
180	185	190	
Asn Ile Val Met Asn Trp Ser Gly Met Lys Cys Gln Phe Lys Leu Leu			
195	200	205	
Arg Met Ala Val Ala Leu Ile Cys Met Ser Met Glu Phe Gly Arg Ala			
210	215	220	
Val Trp Leu Arg Phe His Pro Ser Ala Tyr Pro Pro Cys Pro His Pro			
225	230	235	240
Ser Phe Val Ala His Leu Gly Gly Val Ala Val Gly Ile Thr Leu Gly			
245	250	255	
Val Val Val Leu Arg Asn Tyr Glu Gln Arg Leu Gln Asp Gln Ser Leu			
260	265	270	
Trp Trp Ile Phe Val Ala Met Tyr Thr Val Phe Val Leu Phe Ala Val			
275	280	285	
Phe Trp Asn Ile Phe Ala Tyr Thr Leu Leu Asp Leu Lys Leu Pro Pro			
290	295	300	
Pro Pro			
305			

<210> 2351

<211> 178

<212> PRT

<213> Homo sapiens

<400> 2351

Met Val Gly Phe Pro Asn Ala Gly Lys Ser Ser Leu Leu Arg Ala Ile
 1 5 10 15
 Ser Asn Ala Arg Pro Ala Val Ala Ser Tyr Pro Phe Thr Thr Leu Lys
 20 25 30
 Pro His Val Gly Ile Val His Tyr Glu Gly His Leu Gln Ile Ala Val
 35 40 45
 Ala Asp Ile Pro Gly Ile Ile Arg Gly Ala His Gln Asn Arg Gly Leu
 50 55 60
 Gly Ser Ala Phe Leu Arg His Ile Glu Arg Cys Arg Phe Leu Leu Phe
 65 70 75 80
 Val Val Asp Leu Ser Gln Pro Glu Pro Trp Thr Gln Val Asp Asp Leu
 85 90 95
 Lys Tyr Glu Leu Glu Met Tyr Glu Lys Gly Leu Ser Ala Arg Pro His
 100 105 110
 Ala Ile Val Ala Asn Lys Ile Asp Leu Pro Glu Ala Gln Ala Asn Leu
 115 120 125
 Ser Gln Leu Arg Asp His Leu Gly Gln Glu Val Ile Val Leu Ser Ala
 130 135 140
 Leu Thr Gly Glu Asn Leu Glu Gln Leu Leu Leu His Leu Lys Val Leu
 145 150 155 160
 Tyr Asp Ala Tyr Ala Glu Ala Glu Leu Gly Gln Gly Arg Gln Pro Leu
 165 170 175
 Arg Trp

<210> 2352

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2352

Met Tyr Gly Ala Thr Gln Ser Gln Ser Asp Met Cys Asp Gln Asp Gln
 1 5 10 15
 Cys Ile Gln Ser Thr Lys Phe Val Leu Gln Ala Ala Ala Thr Pro Leu

20	25	30
Leu Gln Ser Glu Pro Ser Leu Thr Ser Asp Glu Leu His Leu Pro Gly		
35	40	45
Lys Pro Gly Leu Gly Thr Pro Cys Ala Ser Leu Thr Leu Gly Pro Pro		
50	55	60
Thr Pro Pro Ala Ser Met Pro Asn Leu Ala Glu Ala Thr Leu Ala Asp		
65	70	75
Val Met Pro Arg Lys Asp Glu His Met Gly His Gln Phe Leu Thr Pro		
85	90	95
Asp Glu Ala Pro Ser Pro Pro Arg Leu Leu Ala Ala Gly Ser Pro Leu		
100	105	110
Ala His Ser Arg Thr Met His Val Leu Gly Leu Ala Ser Gln Asp Ser		
115	120	125
Leu His Glu Asp Ser Val Arg Gly Leu Val Lys Leu Ser Ser Val		
130	135	140

<210> 2353

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2353

Met Ala Phe Gln Ser Leu Asp Ile Phe Ile Ile Asn Thr Asn Ile Pro		
1	5	10
Leu His Lys Gly Thr Ser Ser Asn Leu Arg Leu Glu Gly Pro Pro Ala		
20	25	30
Tyr Val Phe Leu Leu Ile Leu Ser Tyr Leu Pro Ser Ser Pro His Asn		
35	40	45
Ser His Ser Val Thr Lys Ser Arg Arg Phe Tyr Leu Leu Asn Leu Ser		
50	55	60
Tyr Pro Ser Leu Leu Ser His Ser Pro Asp Thr Thr Ile Asn Gln Ala		
65	70	75
Thr Ile Thr Ser Ser Cys Leu Thr Ala Asn Ala Ser Arg Leu Ala Ser		
85	90	95
Ala Phe Pro Trp Pro Cys Asp Asn Leu His Ser Ser Gln Gly Pro Lys		

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          100          105          110
Gln Ser Leu Gln Lys Val His Pro Asn Arg Ser Leu Asn Phe Gln Trp
          115          120          125
Leu Pro Leu Leu Cys Gly Leu Thr Met Ile Lys Ala Arg Pro Gly Val
          130          135          140
Gly Ala His Ala Cys Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Arg
145          150          155          160
Ile Thr Thr Leu Gly Asp Pro Asp His Ser Pro
          165          170

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<210> 2354

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2354

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Met Val Glu Leu Val Ser Glu Ala Trp Tyr Ser Ala Ala Glu Ala Arg
  1          5          10          15
Gln Gly Cys His Gly Asp Phe His Ser Ile Trp Met Ala Asn Cys Leu
          20          25          30
His Val Gly Lys Pro His Gly Thr Asp Ser Phe Leu Lys Gly Ser Pro
          35          40          45
Ser Ile Ser Glu Phe Gly Asp Phe Ile Ser Tyr Ser Trp Asn Gln Asn
          50          55          60
Glu Cys Gly Val Ile Ile Tyr Ile Phe Phe Gly Thr Glu Ser Arg Ser
          65          70          75          80
Val Ala Gln Ala Gly Val Gln Trp Cys Asp Leu Val Ser Leu Gln Pro
          85          90          95
Leu Pro Pro Gly Phe Lys
          100

```

<210> 2355

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2355

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Met Pro Ser Cys Asp Pro Gly Pro Gly Pro Ala Cys Leu Pro Thr Lys
 1             5             10             15
Thr Phe Arg Ser Tyr Leu Pro Arg Cys His Arg Thr Tyr Ser Cys Val
             20             25             30
His Cys Arg Ala His Leu Ala Lys His Asp Glu Leu Ile Ser Lys Ser
             35             40             45
Phe Gln Gly Ser His Gly Arg Ala Tyr Leu Phe Asn Ser Val Val Asn
             50             55             60
Val Gly Cys Gly Pro Ala Glu Gln Arg Leu Leu Leu Thr Gly Leu His
             65             70             75             80
Ser Val Ala Asp Ile Phe Cys Glu Ser Cys Lys Thr Thr Leu Gly Trp
             85             90             95
Lys Tyr Glu Gln Ala Phe Glu Thr Ser Gln Lys Tyr Lys Glu Gly Lys
             100            105            110
Tyr Ile Ile Glu Met Ser His Met Val Lys Asp Asn Gly Trp Asp
             115            120            125

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<210> 2356

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2356

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Met Ala Asn Asp Leu Cys Met Trp Gly Ala Asp Ile Gln Ser Val Pro
 1             5             10             15
Gly Pro Leu Trp His His Phe Cys Gly Arg Ala Gly Ser Pro Cys Thr
             20             25             30
Gly Leu Cys Cys Phe Cys Arg Pro Gly Phe Gln Gly Ser Cys Leu Cys
             35             40             45
Leu Ala Leu Leu Phe Ser Ala Phe Pro Arg Tyr Phe Ser Asp Trp Ser
             50             55             60
Leu Pro Ser Leu Pro Leu Pro Ser Gln Asp Cys Gly Pro Leu Gln Val

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[illegible]

<210> 2358

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2358

Met Arg Lys Glu Ala Val Pro Ser Arg Gly Leu Ser Cys Val Arg Gly
 1 5 10 15
 Gly Ala Ala Ala Val Ala Gly Val Ser Arg His Pro Thr Gln Gly Ser
 20 25 30
 Phe Gln Ile Arg His Leu Phe Thr Arg Pro Pro Tyr Ser Phe Phe Ser
 35 40 45
 Pro Arg Leu Leu His Val Gly Val Gln Cys Leu Ala Leu Thr Ser Pro
 50 55 60
 His Ser Ser Trp Trp Gly Phe Glu Leu Gly Val Pro Ser Ala Pro His
 65 70 75 80
 Ser Pro Leu Thr Ala Pro Thr Pro Arg Lys Pro Pro Leu Pro Pro Leu
 85 90 95
 Phe Val Ser Ser Phe His Ser Leu Gly Gly Gln Ala Ala Ala Pro Val
 100 105 110
 Ala Ala Pro Ala Leu Phe His Pro Pro Leu Leu Ser Gln Pro Glu Leu
 115 120 125
 Tyr Arg Glu Val Trp Ala Pro His Leu Gly Pro Cys His Ala Cys Ser
 130 135 140
 Gln Lys His Pro Arg Gly Ser Pro Asp Ser Leu Leu Pro Trp Ala Leu
 145 150 155 160
 Leu Arg Ser Pro Phe Ile Val Ala Phe Gly Val Cys Leu Met Pro Ile
 165 170 175
 Pro Cys Ser

<210> 2359

<211> 920

<212> PRT

<213> Homo sapiens

<400> 2359

Met Gly Arg Gly Ala Gly Arg Glu Tyr Ser Pro Ala Ala Thr Thr Ala
 1 5 10 15
 Glu Asn Gly Gly Gly Lys Lys Lys Gln Lys Glu Lys Glu Leu Asp Glu
 20 25 30
 Leu Lys Lys Glu Val Val Ile Val Thr Gly Cys Phe Ser Tyr Tyr Gln
 35 40 45
 Glu Ala Lys Ser Ser Lys Ile Met Asp Ser Phe Lys Asn Met Val Pro
 50 55 60
 Gln Gln Ala Leu Val Ile Arg Glu Gly Glu Lys Met Gln Ile Asn Ala
 65 70 75 80
 Glu Glu Val Val Val Gly Asp Leu Val Glu Val Lys Gly Gly Asp Arg
 85 90 95
 Val Pro Ala Asp Leu Arg Ile Ile Ser Ser His Gly Cys Lys Val Asp
 100 105 110
 Asn Ser Ser Leu Thr Gly Glu Pro Glu Pro Gln Thr Arg Ser Pro Glu
 115 120 125
 Phe Thr His Glu Asn Pro Leu Glu Thr Arg Asn Ile Cys Phe Phe Ser
 130 135 140
 Thr Asn Cys Val Glu Gly Thr Ala Arg Gly Ile Val Ile Ala Thr Gly
 145 150 155 160
 Asp Arg Thr Val Met Gly Arg Ile Ala Thr Leu Ala Ser Gly Leu Glu
 165 170 175
 Val Gly Arg Thr Pro Ile Ala Met Glu Ile Glu His Phe Ile Gln Leu
 180 185 190
 Ile Thr Gly Val Ala Val Phe Leu Gly Val Ser Phe Phe Val Leu Ser
 195 200 205
 Leu Ile Leu Gly Tyr Ser Trp Leu Glu Ala Val Ile Phe Leu Ile Gly
 210 215 220
 Ile Ile Val Ala Asn Val Pro Glu Gly Leu Leu Ala Thr Val Thr Val
 225 230 235 240
 Cys Leu Thr Leu Thr Ala Lys Arg Met Ala Arg Lys Asn Cys Leu Val
 245 250 255
 Lys Asn Leu Glu Ala Val Glu Thr Leu Gly Ser Thr Ser Thr Ile Cys
 260 265 270

Ser Asp Lys Thr Gly Thr Leu Thr Gln Asn Arg Met Thr Val Ala His
 275 280 285
 Met Trp Phe Asp Asn Gln Ile His Glu Ala Asp Thr Thr Glu Asp Gln
 290 295 300
 Ser Gly Ala Thr Phe Asp Lys Arg Ser Pro Thr Trp Thr Ala Leu Ser
 305 310 315 320
 Arg Ile Ala Gly Leu Cys Asn Arg Ala Val Phe Lys Ala Gly Gln Glu
 325 330 335
 Asn Ile Ser Val Ser Lys Arg Asp Thr Ala Gly Asp Ala Ser Glu Ser
 340 345 350
 Ala Leu Leu Glu Cys Ile Glu Leu Ser Cys Gly Ser Val Arg Lys Met
 355 360 365
 Arg Asp Arg Asn Pro Lys Val Ala Glu Ile Pro Phe Asn Ser Thr Asn
 370 375 380
 Lys Tyr Gln Leu Ser Ile His Glu Arg Glu Asp Ser Pro Gln Ser His
 385 390 395 400
 Val Leu Val Met Lys Gly Ala Pro Glu Arg Ile Leu Asp Arg Cys Ser
 405 410 415
 Thr Ile Leu Val Gln Gly Lys Glu Ile Pro Leu Asp Lys Glu Met Gln
 420 425 430
 Asp Ala Phe Gln Asn Ala Tyr Met Glu Leu Gly Gly Leu Gly Glu Arg
 435 440 445
 Val Leu Gly Phe Cys Gln Leu Asn Leu Pro Ser Gly Lys Phe Pro Arg
 450 455 460
 Gly Phe Lys Phe Asp Thr Asp Glu Leu Asn Phe Pro Thr Glu Lys Leu
 465 470 475 480
 Cys Phe Val Gly Leu Met Ser Met Ile Asp Pro Pro Arg Ala Ala Val
 485 490 495
 Pro Asp Ala Val Gly Lys Cys Arg Ser Ala Gly Ile Lys Val Ile Met
 500 505 510
 Val Thr Gly Asp His Pro Ile Thr Ala Lys Ala Ile Ala Lys Gly Val
 515 520 525
 Gly Ile Ile Ser Glu Gly Asn Glu Thr Val Glu Asp Ile Ala Ala Arg
 530 535 540
 Leu Asn Ile Pro Met Ser Gln Val Asn Pro Arg Glu Ala Lys Ala Cys

545	550	555	560
Val Val His Gly Ser Asp Leu Lys Asp Met Thr Ser Glu Gln Leu Asp			
	565	570	575
Glu Ile Leu Lys Asn His Thr Glu Ile Val Phe Ala Arg Thr Ser Pro			
	580	585	590
Gln Gln Lys Leu Ile Ile Val Glu Gly Cys Gln Arg Gln Gly Ala Ile			
	595	600	605
Val Ala Val Thr Gly Asp Gly Val Asp Asp Ser Pro Ala Leu Lys Lys			
	610	615	620
Ala Asp Ile Gly Ile Ala Met Gly Ile Ser Gly Ser Asp Val Ser Lys			
625	630	635	640
Gln Ala Ala Asp Met Ile Leu Leu Asp Asp Asn Phe Ala Ser Ile Val			
	645	650	655
Thr Gly Val Glu Glu Gly Arg Leu Ile Phe Asp Asn Leu Lys Lys Ser			
	660	665	670
Ile Ala Tyr Thr Leu Thr Ser Asn Ile Pro Glu Ile Thr Pro Phe Leu			
	675	680	685
Leu Phe Ile Ile Ala Asn Ile Pro Leu Pro Leu Gly Thr Val Thr Ile			
	690	695	700
Leu Cys Ile Asp Leu Gly Thr Asp Met Val Pro Ala Ile Ser Leu Ala			
705	710	715	720
Tyr Glu Ala Ala Glu Ser Asp Ile Met Lys Arg Gln Pro Arg Asn Ser			
	725	730	735
Gln Thr Asp Lys Leu Val Asn Glu Arg Leu Ile Ser Met Ala Tyr Gly			
	740	745	750
Gln Ile Gly Met Ile Gln Ala Leu Gly Gly Phe Phe Thr Tyr Phe Val			
	755	760	765
Ile Leu Ala Glu Asn Gly Phe Leu Pro Ser Arg Leu Leu Gly Ile Arg			
	770	775	780
Leu Asp Trp Asp Asp Arg Thr Met Asn Asp Leu Glu Asp Ser Tyr Gly			
785	790	795	800
Gln Glu Trp Thr Tyr Glu Gln Arg Lys Val Val Glu Phe Thr Cys His			
	805	810	815
Thr Ala Phe Phe Ala Ser Ile Val Val Val Gln Trp Ala Asp Leu Ile			
	820	825	830
Ile Cys Lys Thr Arg Arg Asn Ser Val Phe Gln Gln Gly Met Lys Asn			

835 840 845
 Lys Ile Leu Ile Phe Gly Leu Leu Glu Glu Thr Ala Leu Ala Ala Phe
 850 855 860
 Leu Ser Tyr Cys Pro Gly Met Gly Val Ala Leu Arg Met Tyr Pro Leu
 865 870 875 880
 Lys Val Thr Trp Trp Phe Cys Ala Phe Pro Tyr Ser Leu Leu Ile Phe
 885 890 895
 Ile Tyr Asp Glu Val Arg Lys Leu Ile Leu Arg Arg Tyr Pro Gly Gly
 900 905 910
 Trp Val Glu Lys Glu Thr Tyr Tyr
 915 920

<210> 2360

<211> 293

<212> PRT

<213> Homo sapiens

<400> 2360

Met Glu Leu Ser Asp Phe Glu Asp Cys Leu Thr Leu Phe Ala Gly Asp
 1 5 10 15
 Pro Gly Leu Gly Pro Glu Glu Leu Arg Ala Ala Met Gly Lys Ala Lys
 20 25 30
 Gln Leu Trp Gly Pro Pro Arg Gly Phe Arg Pro Glu Gln Ile Leu Gln
 35 40 45
 Leu Gly Arg Leu Leu Ile Gly Leu Gly Asp Arg Glu Leu Gln Glu Leu
 50 55 60
 Ile Leu Val Asp Trp Gly Val Leu Ser Thr Leu Gly Gln Ile Asp Gly
 65 70 75 80
 Trp Ser Thr Thr Gln Leu Arg Ile Val Val Ser Ser Phe Leu Arg Gln
 85 90 95
 Ser Gly Arg His Val Ser His Leu Asp Phe Val His Leu Thr Ala Leu
 100 105 110
 Gly Tyr Thr Leu Cys Gly Leu Arg Pro Glu Glu Leu Gln His Ile Ser
 115 120 125
 Ser Trp Glu Phe Ser Gln Ala Ala Leu Phe Leu Gly Thr Leu His Leu

130 135 140
 Gln Cys Ser Glu Glu Gln Leu Glu Val Leu Ala His Leu Leu Val Leu
 145 150 155 160
 Pro Gly Gly Phe Gly Pro Ile Ser Asn Trp Gly Pro Glu Ile Phe Thr
 165 170 175
 Glu Ile Gly Thr Ile Ala Ala Gly Ile Pro Asp Leu Ala Leu Ser Ala
 180 185 190
 Leu Leu Arg Gly Gln Ile Gln Gly Val Thr Pro Leu Ala Ile Ser Val
 195 200 205
 Ile Pro Pro Pro Lys Phe Ala Val Val Phe Ser Pro Ile Gln Leu Ser
 210 215 220
 Ser Leu Thr Ser Ala Gln Ala Val Ala Val Thr Pro Glu Gln Met Ala
 225 230 235 240
 Phe Leu Ser Pro Glu Gln Arg Arg Ala Val Ala Trp Ala Gln His Glu
 245 250 255
 Gly Lys Glu Ser Pro Glu Gln Gln Gly Arg Ser Thr Ala Trp Gly Leu
 260 265 270
 Gln Asp Trp Ser Arg Pro Ser Trp Ser Leu Val Leu Thr Ile Ser Phe
 275 280 285
 Leu Gly His Leu Leu
 290

<210> 2361

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2361

Met Trp Val Pro Ala Gly Gln Ala Ile Gly Gly Tyr Gly Pro Pro Pro
 1 5 10 15
 Ala Gly Arg Gly Ala Pro Pro Pro Pro Pro Phe Thr Ser Tyr Ile
 20 25 30
 Val Ser Thr Pro Pro Gly Gly Phe Pro Pro Pro Gln Gly Phe Pro Gln
 35 40 45
 Gly Tyr Gly Ala Pro Pro Gln Phe Ser Phe Gly Tyr Gly Pro Pro Pro

50 55 60
 Pro Pro Pro Asp Gln Phe Ala Pro Pro Gly Val Pro Pro Pro Pro Ala
 65 70 75 80
 Thr Pro Gly Ala Ala Pro Leu Ala Phe Pro Pro Pro Pro Ser Gln Ala
 85 90 95
 Ala Pro Asp Met Ser Lys Pro Pro Thr Ala Gln Pro Asp Phe Pro Tyr
 100 105 110
 Gly Gln Tyr Ala Gly Tyr Gly Gln Asp Leu Ser Gly Phe Gly Gln Gly
 115 120 125
 Phe Ser Asp Pro Ser Gln Gln Pro Pro Ser Tyr Gly Gly Pro Ser Val
 130 135 140
 Pro Gly Ser Gly Gly Pro Pro Ala Gly Gly Ser Gly Phe Gly Arg Gly
 145 150 155 160
 Gln Asn His Asn Val Gln Gly Phe His Pro Tyr Arg Arg
 165 170

<210> 2362

<211> 270

<212> PRT

<213> Homo sapiens

<400> 2362

Met His Gly Ser Cys Ser Phe Leu Met Leu Leu Leu Pro Leu Leu Leu
 1 5 10 15
 Leu Leu Val Ala Thr Thr Gly Pro Val Gly Ala Leu Thr Asp Glu Glu
 20 25 30
 Lys Arg Leu Met Val Glu Leu His Asn Leu Tyr Arg Ala Gln Val Ser
 35 40 45
 Pro Pro Ala Ser Asp Met Leu His Met Arg Trp Asp Glu Glu Leu Ala
 50 55 60
 Ala Phe Ala Lys Ala Tyr Ala Arg Gln Cys Val Trp Gly His Asn Lys
 65 70 75 80
 Glu Arg Gly Arg Arg Gly Glu Asn Leu Phe Ala Ile Thr Asp Glu Gly
 85 90 95
 Met Asp Val Pro Leu Ala Met Glu Glu Trp His His Glu Arg Glu His

100	105	110
Tyr Asn Leu Ser Ala Ala Thr Cys Ser Pro Gly Gln Met Cys Gly His		
115	120	125
Tyr Thr Gln Val Val Trp Ala Lys Thr Glu Arg Ile Gly Cys Gly Ser		
130	135	140
His Phe Cys Glu Lys Leu Gln Gly Val Glu Glu Thr Asn Ile Glu Leu		
145	150	155
Leu Val Cys Asn Tyr Glu Pro Pro Gly Asn Val Lys Gly Lys Arg Pro		
165	170	175
Tyr Gln Glu Gly Thr Pro Cys Ser Gln Cys Pro Ser Gly Tyr His Cys		
180	185	190
Lys Asn Ser Leu Cys Glu Pro Ile Gly Ser Pro Glu Asp Ala Gln Asp		
195	200	205
Leu Pro Tyr Leu Val Thr Glu Ala Pro Ser Phe Arg Ala Thr Glu Ala		
210	215	220
Ser Asp Ser Arg Lys Met Gly Ala Glu Gly Pro Asp Lys Pro Ser Val		
225	230	235
Val Ser Gly Leu Asn Ser Gly Pro Gly His Val Trp Gly Pro Leu Leu		
245	250	255
Gly Leu Leu Leu Leu Pro Pro Leu Val Leu Ala Gly Ile Phe		
260	265	270

<210> 2363

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2363

Met Arg Lys Lys Gly Ser Leu Pro Leu Gly Pro Ala Leu Leu Met His		
1	5	10
Val Cys Ala His Ala Cys Lys Pro Gly Thr Phe Ser Ser Arg Pro Pro		
20	25	30
Gly Leu Gly Gln Phe Leu Leu Leu Leu Pro Ser Pro Pro Thr Gly Cys		
35	40	45
Val Leu Ser Asn Trp Asn Met Arg Leu Tyr Leu Gln Asp Trp Pro His		

50 55 60
 Gly Gly Arg Val Arg Ser Leu Phe Pro Val Ser Arg His Arg Ser Leu
 65 70 75 80
 Ser Leu Ala Leu Pro Cys Phe Gly Ala Ser Leu Val Ala Pro Val Arg
 85 90 95
 Phe Ser Arg Leu Val Ala Ala Gln Ser Gly Val Arg Thr Cys Arg Gly
 100 105 110
 His Ala Phe Leu Ala Leu Thr
 115

<210> 2364

<211> 242

<212> PRT

<213> Homo sapiens

<400> 2364

Met Pro Pro Gly His Thr His Ser Gly Ser Asp Ser Ser Asp Ser Glu
 1 5 10 15
 Tyr Ser Ser Gln Thr Thr Val Ser Gly Leu Ser Glu Glu Leu Arg His
 20 25 30
 Tyr Glu Ala Gln Gln Gly Ala Gly Gly Pro Ala His Gln Val Ile Val
 35 40 45
 Glu Ala Thr Glu Asn Pro Val Phe Ala His Ser Thr Val Val His Pro
 50 55 60
 Glu Ser Arg His His Pro Pro Ser Asn Pro Arg Gln Gln Pro His Leu
 65 70 75 80
 Asp Ser Gly Ser Leu Pro Pro Gly Arg Gln Gly Gln Gln Pro Arg Arg
 85 90 95
 Asp Pro Pro Arg Glu Gly Leu Trp Pro Pro Pro Tyr Arg Pro Arg Arg
 100 105 110
 Asp Ala Phe Glu Ile Ser Thr Glu Gly His Ser Gly Pro Ser Asn Arg
 115 120 125
 Ala Arg Trp Gly Pro Arg Gly Ala Arg Ser His Asn Pro Arg Asn Pro
 130 135 140
 Ala Ser Thr Ala Met Gly Ser Ser Val Pro Gly Tyr Cys Gln Pro Ile

145 150 155 160
 Thr Thr Val Thr Ala Ser Ala Ser Val Thr Val Ala Val His Pro Pro
 165 170 175
 Pro Val Pro Gly Pro Gly Arg Asn Pro Arg Gly Gly Leu Cys Pro Gly
 180 185 190
 Tyr Pro Glu Thr Asp His Gly Leu Phe Glu Asp Pro Thr Cys Leu Ser
 195 200 205
 Thr Ser Gly Val Arg Gly Gly Ile Arg Arg Trp Lys Ser Leu Ser Cys
 210 215 220
 Arg Thr Trp Asn Ala Arg Arg Gly Pro Gly Glu Ala Ala Pro Thr Glu
 225 230 235 240
 Gly Asp

<210> 2365

<211> 945

<212> PRT

<213> Homo sapiens

<400> 2365

Met Ala Glu Gly Gln Gly Gly Gly Gly Gln Arg Trp Asp Trp Ala Gly
 1 5 10 15
 Gly Gly Arg Ala Ala Glu Glu Glu Val Val Arg Arg Arg Cys Arg Arg
 20 25 30
 Gly Glu Glu Ala Gln Val Ala Gln Pro Trp Pro Glu Gly Ser Arg Gly
 35 40 45
 Thr Ala Ala Gly Pro Pro Val Glu Glu Arg Phe Arg Gln Leu His Leu
 50 55 60
 Arg Lys Gln Val Ser Tyr Arg Lys Ala Ile Thr Lys Ser Gly Leu Gln
 65 70 75 80
 His Leu Ala Pro Pro Pro Pro Thr Pro Gly Ala Pro Cys Ser Glu Ser
 85 90 95
 Glu Arg Gln Ile Arg Ser Thr Val Asp Trp Ser Glu Ser Ala Thr Tyr
 100 105 110
 Gly Glu His Ile Trp Phe Glu Thr Asn Val Ser Gly Asp Phe Cys Tyr

115	120	125
Val Gly Glu Gln Tyr Cys	Val Ala Arg Met Leu Lys	Ser Val Ser Arg
130	135	140
Arg Lys Cys Ala Ala Cys Lys Ile Val Val His Thr Pro Cys Ile Glu		
145	150	155
Gln Leu Glu Lys Ile Asn Phe Arg Cys Lys Pro Ser Phe Arg Glu Ser		
165	170	175
Gly Ser Arg Asn Val Arg Glu Pro Thr Phe Val Arg His His Trp Val		
180	185	190
His Arg Arg Arg Gln Asp Gly Lys Cys Arg His Cys Gly Lys Gly Phe		
195	200	205
Gln Gln Lys Phe Thr Phe His Ser Lys Glu Ile Val Ala Ile Ser Cys		
210	215	220
Ser Trp Cys Lys Gln Ala Tyr His Ser Lys Val Ser Cys Phe Met Leu		
225	230	235
Gln Gln Ile Glu Glu Pro Cys Ser Leu Gly Val His Ala Ala Val Val		
245	250	255
Ile Pro Pro Thr Trp Ile Leu Arg Ala Arg Arg Pro Gln Asn Thr Leu		
260	265	270
Lys Ala Ser Lys Lys Lys Lys Arg Ala Ser Phe Lys Arg Lys Ser Ser		
275	280	285
Lys Lys Gly Pro Glu Glu Gly Arg Trp Arg Pro Phe Ile Ile Arg Pro		
290	295	300
Thr Pro Ser Pro Leu Met Lys Pro Leu Leu Val Phe Val Asn Pro Lys		
305	310	315
Ser Gly Gly Asn Gln Gly Ala Lys Ile Ile Gln Ser Phe Leu Trp Tyr		
325	330	335
Leu Asn Pro Arg Gln Val Phe Asp Leu Ser Gln Gly Gly Pro Lys Glu		
340	345	350
Ala Leu Glu Met Tyr Arg Lys Val His Asn Leu Arg Ile Leu Ala Cys		
355	360	365
Gly Gly Asp Gly Thr Val Gly Trp Ile Leu Ser Thr Leu Asp Gln Leu		
370	375	380
Arg Leu Lys Pro Pro Pro Pro Val Ala Ile Leu Pro Leu Gly Thr Gly		
385	390	395
Asn Asp Leu Ala Arg Thr Leu Asn Trp Gly Gly Gly Tyr Thr Asp Glu		

	405		410		415										
Pro	Val	Ser	Lys	Ile	Leu	Ser	His	Val	Glu	Glu	Gly	Asn	Val	Val	Gln
	420							425					430		
Leu	Asp	Arg	Trp	Asp	Leu	His	Ala	Glu	Pro	Asn	Pro	Glu	Ala	Gly	Pro
	435							440					445		
Glu	Asp	Arg	Asp	Glu	Gly	Ala	Thr	Asp	Arg	Leu	Pro	Leu	Asp	Val	Phe
	450							455					460		
Asn	Asn	Tyr	Phe	Ser	Leu	Gly	Phe	Asp	Ala	His	Val	Thr	Leu	Glu	Phe
465					470						475				480
His	Glu	Ser	Arg	Glu	Ala	Asn	Pro	Glu	Lys	Phe	Asn	Ser	Arg	Phe	Arg
				485							490				495
Asn	Lys	Met	Phe	Tyr	Ala	Gly	Thr	Ala	Phe	Ser	Asp	Phe	Leu	Met	Gly
	500							505					510		
Ser	Ser	Lys	Asp	Leu	Ala	Lys	His	Ile	Arg	Val	Val	Cys	Asp	Gly	Met
	515							520					525		
Asp	Leu	Thr	Pro	Lys	Ile	Gln	Asp	Leu	Lys	Pro	Gln	Cys	Val	Val	Phe
	530					535							540		
Leu	Asn	Ile	Pro	Arg	Tyr	Cys	Ala	Gly	Thr	Met	Pro	Trp	Gly	His	Pro
545						550					555				560
Gly	Glu	His	His	Asp	Phe	Glu	Pro	Gln	Arg	His	Asp	Asp	Gly	Tyr	Leu
				565							570				575
Glu	Val	Ile	Gly	Phe	Thr	Met	Thr	Ser	Leu	Ala	Ala	Leu	Gln	Val	Gly
	580							585					590		
Gly	His	Gly	Glu	Arg	Leu	Thr	Gln	Cys	Arg	Glu	Val	Val	Leu	Thr	Thr
	595							600					605		
Ser	Lys	Ala	Ile	Pro	Val	Gln	Val	Asp	Gly	Glu	Pro	Cys	Lys	Leu	Ala
	610					615							620		
Ala	Ser	Arg	Ile	Arg	Ile	Ala	Leu	Arg	Asn	Gln	Ala	Thr	Met	Val	Gln
625						630					635				640
Lys	Ala	Lys	Arg	Arg	Ser	Ala	Ala	Pro	Leu	His	Ser	Asp	Gln	Gln	Pro
				645							650				655
Val	Pro	Glu	Gln	Leu	Arg	Ile	Gln	Val	Ser	Arg	Val	Ser	Met	His	Asp
	660							665					670		
Tyr	Glu	Ala	Leu	His	Tyr	Asp	Lys	Glu	Gln	Leu	Lys	Glu	Ala	Ser	Val
	675							680					685		
Pro	Leu	Gly	Thr	Val	Val	Val	Pro	Gly	Asp	Ser	Asp	Leu	Glu	Leu	Cys

690	695	700	
Arg Ala His Ile Glu Arg Leu Gln Gln Glu Pro Asp Gly Ala Gly Ala			
705	710	715	720
Lys Ser Pro Thr Cys Gln Lys Leu Ser Pro Lys Trp Cys Phe Leu Asp			
	725	730	735
Ala Thr Thr Ala Ser Arg Phe Tyr Arg Ile Asp Arg Ala Gln Glu His			
	740	745	750
Leu Asn Tyr Val Thr Glu Ile Ala Gln Asp Glu Ile Tyr Ile Leu Asp			
	755	760	765
Pro Glu Leu Leu Gly Ala Ser Ala Arg Pro Asp Leu Pro Thr Pro Thr			
	770	775	780
Ser Pro Leu Pro Thr Ser Pro Cys Ser Pro Thr Pro Arg Ser Leu Gln			
785	790	795	800
Gly Asp Ala Ala Pro Pro Gln Gly Glu Glu Leu Ile Glu Ala Ala Lys			
	805	810	815
Arg Asn Asp Phe Cys Lys Leu Gln Glu Leu His Arg Ala Gly Gly Asp			
	820	825	830
Leu Met His Arg Asp Glu Gln Ser Arg Thr Leu Leu His His Ala Val			
	835	840	845
Ser Thr Gly Ser Lys Asp Val Val Arg Tyr Leu Leu Asp His Ala Pro			
	850	855	860
Pro Glu Ile Leu Asp Ala Val Glu Glu Asn Gly Glu Thr Cys Leu His			
865	870	875	880
Gln Ala Ala Ala Leu Gly Gln Arg Thr Ile Cys His Tyr Ile Val Glu			
	885	890	895
Ala Gly Ala Ser Leu Met Lys Thr Asp Gln Gln Gly Asp Thr Pro Arg			
	900	905	910
Gln Arg Ala Glu Lys Ala Gln Asp Thr Glu Leu Ala Ala Tyr Leu Glu			
	915	920	925
Asn Arg Gln His Tyr Gln Met Ile Gln Arg Glu Asp Gln Glu Thr Ala			
	930	935	940
Val			
945			

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2366

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Met Gly Tyr Asn Pro Val Leu Leu Ser Phe Val Arg Met Phe Pro Ala
  1             5             10            15
Gln Ala Leu Arg Ser Ser Leu Ser Ser Tyr Val Leu Phe Ala Tyr Pro
      20             25            30
Val Ile Val Gly Phe Cys Trp Val Leu Cys Val Leu Asn Thr Phe Leu
      35             40            45
Leu Ser Gly Thr Thr Arg Tyr Ser Arg Leu Ile Leu Cys Val Ser Tyr
      50             55            60
Arg Ser Pro Lys Ile Ser His Phe Ser Lys Lys Pro Ser Phe Leu Leu
      65             70            75            80
Leu Glu Arg Glu Ile Arg Asn His Gly Cys Trp Val Cys Ser Leu Leu
      85             90            95
Leu Gly Cys Leu Ser Phe Gly Pro Ser His Leu Thr Lys Gly Tyr Met
      100            105            110
Cys Phe Tyr
      115

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<210> 2367

<211> 217

<212> PRT

<213> Homo sapiens

<400> 2367

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Met Ala Ser Ala Gly Pro Asn Arg Pro Glu Ile Ser Leu Ala Arg Asn
  1             5             10            15
Ser Thr Cys Val Gly Cys Pro Asn Asn His Ser Phe Ser Arg Thr Val
      20             25            30
Ala His Gly Gly Arg Ala Leu Ala Ser Ala Trp Pro Pro Gln Ala Gln
      35             40            45
Phe Leu Pro Val Gly Gly Arg Ser Arg Pro Gly Ser Cys Pro Ser Ala

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50	55	60
Ser Ser Pro Gly Pro Glu Leu Val Pro Val Gly Leu Ser Arg Pro Ser		
65	70	75
Ser Pro Gly His Leu His Gly Pro Ser Ser Cys Leu Thr Thr Thr Thr		
85	90	95
Phe Gly Pro Ala Pro Ala Gln Leu Leu Ala Ala Val Val Gly Pro Arg		
100	105	110
Leu Pro Cys Val Gln Ala Ser Arg Thr His Leu Arg Leu Ser Gly Gly		
115	120	125
Pro Glu Arg Pro Gly Ser Cys Leu Pro Ala Ala Ser Pro Gly Pro Ala		
130	135	140
Ala Ala Ser Arg Arg Pro Pro Gln Ala Thr Phe Pro Pro Ala Ser Arg		
145	150	155
Gln Pro Arg Gln Ala Arg Leu Pro Pro Ala Gly Gly Leu Leu Arg Arg		
165	170	175
Leu Ile Ser Cys Pro Ala Ala Ala Ser Pro Gly Gln Ala Pro Ala Cys		
180	185	190
Arg Gln Ala Pro Gln Ala Gln Leu Leu Arg Pro Glu Gly Phe Ser Arg		
195	200	205
Pro Gly Ser Cys Leu Ala Ala Ala Ser		
210	215	

<210> 2368

<211> 196

<212> PRT

<213> Homo sapiens

<400> 2368

Met Gln Gly Cys Ala Arg Ile Asn Ser His Pro Ser Gly Ala Phe Gly
1 5 10 15
Asp Gly His Val Gln Tyr Cys Asp Asn Val Val Asp Arg Trp Pro Phe
20 25 30
Leu Pro Leu Phe Cys Thr Phe Phe Pro Asp Gly Trp Gly Cys Phe Trp
35 40 45
Ala Ala Gln Ser Val Val Gly Ser Trp Gly Arg Gly Asn Gly Pro Gln

50 55 60
 Leu Leu Pro Gln Glu Leu Trp Lys Trp His Trp His Gly Tyr Ala Pro
 65 70 75 80
 Arg Leu Ser Leu Leu Leu Phe Pro Gly Pro Pro Val Val Ile Thr His
 85 90 95
 Pro Asp Leu Gly Asp Leu His Asn Ile Thr Glu Val Gln Pro Leu Gln
 100 105 110
 Gly Gly Arg Trp Trp His Ser Arg Thr Cys Ser Ser Pro Leu Cys Gly
 115 120 125
 His His Ser Leu Pro Leu Leu Leu Val Ser Leu Ser Leu Ala Glu Arg
 130 135 140
 Gly Pro Ala Gly Pro Ser Glu Cys Phe Trp Arg Asn Ala Leu Ile Gln
 145 150 155 160
 Lys Glu Glu Val Lys Ser Leu Lys Thr Val Gly Asp Lys Thr Gly Asn
 165 170 175
 Cys Phe Cys Phe Met Tyr Asn Lys Tyr Leu Pro Phe Tyr Val Ser His
 180 185 190
 Phe Leu Gly Ile
 195

<210> 2369

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2369

Met Thr Gly Tyr His Lys Thr Arg Val Arg Gly Glu Lys Arg Gln Gly
 1 5 10 15
 Asp Gly Lys Lys Ser Trp Arg Ile Tyr Val Gln Ser Cys Gln Leu Gln
 20 25 30
 Met Thr Lys Val Lys Pro Gln Ile Ser Arg Met Leu Arg Arg Met Gly
 35 40 45
 Asn Ile Phe Leu Glu Asp Trp Ala Ala Pro Thr Pro Thr Leu Thr Leu
 50 55 60
 Pro Ser Pro Thr Leu Ile Pro Thr Ser Glu Val Gln Ile Lys Gly Arg

65 70 75 80
 Gly Gln Arg Glu Phe Gln Ser Arg Phe Leu Asp Ser Ser Phe Phe Pro
 85 90 95
 Leu Cys Leu Pro Met Val Ser Pro Ser Leu Gly Ile Leu
 100 105

<210> 2370

<211> 283

<212> PRT

<213> Homo sapiens

<400> 2370

Met Asn Thr Leu Ser Phe Ala Val Leu Lys Glu Gly Arg Gln Leu Thr
 1 5 10 15
 Tyr Glu Lys Val Asn Leu Ser Ser Ile Arg Ala Met Leu Asn Ser Asn
 20 25 30
 Asp Val Ser Glu Tyr Leu Lys Ile Ser Pro His Gly Leu Glu Ala Arg
 35 40 45
 Cys Asp Ala Ser Ser Phe Glu Ser Val Arg Cys Thr Phe Cys Val Asp
 50 55 60
 Ala Gly Val Trp Tyr Tyr Glu Val Thr Val Val Thr Ser Gly Val Met
 65 70 75 80
 Gln Ile Gly Trp Ala Thr Arg Asp Ser Lys Phe Leu Asn His Glu Gly
 85 90 95
 Tyr Gly Ile Gly Asp Asp Glu Tyr Ser Cys Ala Tyr Asp Gly Cys Arg
 100 105 110
 Gln Leu Ile Trp Tyr Asn Ala Arg Ser Lys Pro His Ile His Pro Cys
 115 120 125
 Trp Lys Glu Gly Asp Thr Val Gly Phe Leu Leu Asp Leu Asn Glu Lys
 130 135 140
 Gln Met Ile Phe Phe Leu Asn Gly Asn Gln Leu Pro Pro Glu Lys Gln
 145 150 155 160
 Val Phe Ser Ser Thr Val Ser Gly Phe Phe Ala Ala Ala Ser Phe Met
 165 170 175
 Ser Tyr Gln Gln Cys Glu Phe Asn Phe Gly Ala Lys Pro Phe Lys Tyr

180 185 190
 Pro Pro Ser Met Lys Phe Ser Thr Phe Asn Asp Tyr Ala Phe Leu Thr
 195 200 205
 Ala Glu Glu Lys Ile Ile Leu Pro Arg His Arg Arg Leu Ala Leu Leu
 210 215 220
 Lys Gln Val Ser Ile Arg Glu Asn Cys Cys Ser Leu Cys Cys Asp Glu
 225 230 235 240
 Val Ala Asp Thr Gln Leu Lys Pro Cys Gly His Ser Asp Leu Cys Met
 245 250 255
 Asp Cys Ala Leu Gln Leu Glu Thr Cys Pro Leu Cys Arg Lys Glu Ile
 260 265 270
 Val Ser Arg Ile Arg Gln Ile Ser His Ile Ser
 275 280

<210> 2371

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2371

Met Leu Leu Met Ser Tyr Gly Ser Leu Leu Val Gln Leu Ala His Pro
 1 5 10 15
 Pro Ile His Ser Leu Phe Asp Ser Gln Gln Leu Ser Val Phe Ser Cys
 20 25 30
 Cys Ser Ser Trp Phe Ser Ser Leu Phe Leu Val Leu Phe Phe Ser Ser
 35 40 45
 Phe Phe Ser Asn Phe Phe Ser Val Leu Asp Cys Leu Ser Leu Met Phe
 50 55 60
 Cys Ser Phe Phe Leu Phe Phe Leu Glu Thr Gly Ser His Ser Val Thr
 65 70 75 80
 Gln Asp Gly Val Gln Trp His Asp Val Gly Ser Leu Gln Ser Leu Pro
 85 90 95
 Pro Lys Ala Gln Ala Ile Leu Pro Ser Gln Pro Pro Lys
 100 105

<210> 2372

<211> 372

<212> PRT

<213> Homo sapiens

<400> 2372

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Met Asp Gln Tyr Lys Phe Tyr Asp Pro Ser Pro Pro Arg Arg Arg Gly
 1             5             10             15
Asn Trp Ile Thr Leu Lys Met Arg Lys Leu Ile Lys Ser Lys Lys Asp
      20             25             30
Ile Asn Arg Glu Arg Gln Lys Ser Leu Thr Leu Thr Pro Thr Arg Ser
      35             40             45
Asp Ser Ser Glu Gly Phe Leu Gln Leu Pro His Gln Asp Ser Gln Asp
      50             55             60
Ser Ser Ser Val Gly Ser Asn Ser Leu Glu Asp Gly Gln Thr Leu Gly
      65             70             75             80
Thr Lys Lys Ser Ser Asn Thr Thr Ser Phe Glu Asp Ile Ser Pro Gln
      85             90             95
Gly Val Ser Asp Asp Ser Ser Thr Gly Ser Arg Val His Ala Gly Ala
      100            105            110
Val Asn Asn Gln Ser Arg Pro Gln Ser His Ser Ser Gly Glu Phe Ser
      115            120            125
Leu Leu His Asp His Glu Ala Trp Ser Ser Ser Gly Ser Ser Pro Ile
      130            135            140
Gln Tyr Leu Lys Arg Gln Thr Arg Ser Ser Pro Val Leu Gln His Lys
      145            150            155            160
Ile Ser Glu Thr Leu Glu Ser Arg His His Lys Ile Lys Thr Gly Ser
      165            170            175
Pro Gly Ser Glu Val Val Thr Leu Gln Gln Phe Leu Glu Glu Ser Asn
      180            185            190
Lys Leu Thr Ser Val Gln Ile Lys Ser Ser Ser Gln Glu Asn Leu Leu
      195            200            205
Asp Glu Val Met Lys Ser Leu Ser Val Ser Ser Asp Phe Leu Gly Lys
      210            215            220

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Asp Lys Pro Val Ser Cys Gly Leu Ala Arg Ser Val Ser Gly Lys Thr
 225 230 235 240
 Pro Gly Asp Phe Tyr Asp Arg Arg Thr Thr Lys Pro Glu Phe Leu Arg
 245 250 255
 Pro Gly Pro Arg Lys Thr Glu Asp Thr Tyr Phe Ile Ser Ser Ala Gly
 260 265 270
 Lys Pro Thr Pro Gly Thr Gln Gly Lys Ile Lys Leu Val Lys Glu Ser
 275 280 285
 Ser Leu Ser Arg Gln Ser Lys Asp Ser Asn Pro Tyr Ala Thr Leu Pro
 290 295 300
 Arg Ala Ser Ser Val Ile Ser Thr Ala Glu Gly Thr Thr Arg Arg Thr
 305 310 315 320
 Ser Ile His Asp Phe Leu Thr Lys Asp Ser Arg Leu Pro Ile Ser Val
 325 330 335
 Asp Ser Pro Pro Ala Ala Ala Asp Ser Asn Thr Thr Ala Ala Ser Asn
 340 345 350
 Val Asp Lys Val Gln Glu Ser Arg Asn Ser Lys Ser Arg Ser Arg Glu
 355 360 365
 Gln Gln Ser Ser
 370

<210> 2373

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2373

Met Asp Ile Ser Gly Leu Ile Pro Gly Leu Val Ser Thr Phe Ile Leu
 1 5 10 15
 Leu Ser Ile Ser Asp His Tyr Gly Arg Lys Phe Pro Met Ile Leu Ser
 20 25 30
 Ser Val Gly Ala Leu Ala Thr Ser Val Trp Leu Cys Leu Leu Cys Tyr
 35 40 45
 Phe Ala Phe Pro Phe Gln Leu Leu Ile Ala Ser Thr Phe Ile Gly Ala
 50 55 60

Phe Cys Gly Asn Tyr Thr Thr Phe Trp Gly Ala Cys Phe Ala Tyr Ile
 65 70 75 80
 Val Asp Gln Cys Lys Glu His Lys Gln Lys Thr Ile Arg Ile Ala Ile
 85 90 95
 Ile Asp Phe Leu Leu Gly Leu Val Thr Gly Leu Thr Gly Leu Ser Ser
 100 105 110
 Gly Tyr Phe Ile Arg Glu Leu Gly Phe Glu Trp Ser Phe Leu Ile Ile
 115 120 125
 Ala Val Ser Leu Ala Val Asn Leu Ile Tyr Ile Leu Phe Phe Leu Gly
 130 135 140
 Asp Pro Val Lys Glu Cys Ser Ser Gln Asn Val Thr Met Ser Cys Ser
 145 150 155 160
 Glu Gly Phe Lys Asn Leu Phe Tyr Arg Thr Tyr Met Leu Phe Lys Asn
 165 170 175
 Ala Ser Gly Lys Arg Arg Phe Leu Leu Cys Leu Leu Leu Phe Thr Val
 180 185 190
 Ile Thr Tyr Phe Phe Val Val Ile Gly Ile Ala Pro Ile Phe Ile Leu
 195 200 205
 Tyr Glu Leu Asp Ser Pro Leu Cys Trp Asn Glu Val Phe Ile Gly Tyr
 210 215 220
 Gly Ser Ala Leu Gly Ser Ala Ser Phe Leu Thr Ser Phe Leu Gly Ile
 225 230 235 240
 Trp Leu Phe Ser Tyr Cys Met Glu Asp Ile His Met Ala Phe Ile Gly
 245 250 255
 Ile Phe Thr Thr Met Thr Gly Met Ala Met Thr Ala Phe Ala Ser Thr
 260 265 270
 Thr Leu Met Met Phe Phe Ser Gln Gly Ala Val Pro Phe His Tyr Cys
 275 280 285
 Ala Ile Leu Cys Ser Thr Val His Val Val Lys Ser Gly Ser Phe Asp
 290 295 300

<210> 2374

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2374

Met Gly Ile Leu Tyr Asp Ala Glu Val Tyr Gly Thr Ile Ile Pro Thr
 1 5 10 15
 Ser Gln Val Val Ser Met Val Pro Ser Ser Phe Ser Thr Leu Ser Pro
 20 25 30
 Ser Pro Val Ser Ile Ala Ala Ile Phe Met Ser Met Ser Ile Gln Cys
 35 40 45
 Leu Leu Leu Phe Thr Ser Glu Asn Met Gln Tyr Leu Val Phe Phe Cys
 50 55 60
 Tyr Ile Asn Ser Leu Arg Ile Met Ala Ser Ser Ser Ile His Val Ala
 65 70 75 80
 Ala Lys Asp Met Ile Leu Phe Phe Phe Ile Ala Val Trp Tyr Ser Met
 85 90 95
 Met Tyr Val Tyr His Ser Phe Ile Ile Arg Ser Thr Val Asp Arg His
 100 105 110
 Leu Gly

<210> 2375

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2375

Met Phe Trp Pro Gln Ser Asp Ala Cys Pro Thr Pro Gly Thr Pro Ser
 1 5 10 15
 Ser Met Leu Gln Glu Gly Gly Gln Val Asp Pro Gly Val Cys Arg Ser
 20 25 30
 Leu His His Asn Pro Phe Pro Ser Leu Ser Val Ile Leu Gln Asp Phe
 35 40 45
 Thr Gly Ser Thr Val Ala His Gly Ser Val Ser Leu Leu Leu Gln Ser
 50 55 60
 Leu Pro Phe Asp Trp Ser Val Val Ser Val Cys Arg Gly Phe Asn Ala
 65 70 75 80

Pro	Pro	His	Cys	Ala	Ala	Leu	Val	Ser	Leu	Ser	Leu	Glu	Leu	Leu	Ala
				85					90					95	
Arg	Leu	Thr	Arg	Ser	Ala	Ser	Ser	Pro	Gly	His	Ala	Ser	Pro	Ser	Gly
				100				105					110		
Pro	Val	Ala	Leu	Thr	Val	Glu	Phe	Ala	Met	Cys	Ser	Asp	Ser	Gly	Ala
				115				120				125			
Ser	Gly	Leu	Val	Phe	Cys	Ala	Phe	Tyr	Gly	Phe					
				130				135							

<210> 2376

<211> 168

<212> PRT

<213> Homo sapiens

<400> 2376

Met	Pro	Asp	Val	Pro	Asp	Ala	Phe	Pro	Glu	Leu	Ser	Glu	Leu	Ser	Val
1				5				10				15			
Ser	Gln	Leu	Thr	Asp	Met	Asn	Glu	Gln	Glu	Glu	Val	Leu	Leu	Glu	Gln
20						25						30			
Phe	Leu	Thr	Leu	Pro	Gln	Leu	Lys	Gln	Ile	Ile	Thr	Asp	Lys	Asp	Asp
35					40					45					
Leu	Val	Lys	Ser	Ile	Glu	Glu	Leu	Ala	Arg	Lys	Asn	Leu	Leu	Leu	Glu
50				55				60							
Pro	Ser	Leu	Glu	Ala	Lys	Arg	Gln	Thr	Val	Leu	Asp	Lys	Met	Lys	Ser
65			70					75					80		
Thr	Phe	Glu	Lys	Lys	Met	Gln	Arg	Gln	His	Glu	Leu	Ser	Glu	Ser	Cys
85					90					95					
Ser	Ala	Ser	Ala	Leu	Gln	Ala	Arg	Leu	Lys	Val	Ala	Ala	His	Glu	Ala
100				105				110							
Glu	Glu	Glu	Ser	Asp	Asn	Ile	Ala	Glu	Asp	Phe	Leu	Glu	Gly	Lys	Met
115				120				125							
Glu	Ile	Asp	Asp	Phe	Leu	Ser	Ser	Phe	Met	Glu	Lys	Arg	Thr	Ile	Cys
130			135					140							
His	Cys	Arg	Arg	Ala	Lys	Glu	Glu	Lys	Leu	Gln	Gln	Ala	Ile	Ala	Met
145		150					155					160			

His Ser Gln Phe His Ala Pro Leu

165

<210> 2377

<211> 352

<212> PRT

<213> Homo sapiens

<400> 2377

Met Pro Ser Gly Val Pro Gly Cys Trp Pro Gln Leu Pro Leu Lys Gly
 1 5 10 15
 Pro Trp Arg Pro Thr Pro Arg Pro Arg Val Pro Val Pro Trp Arg Thr
 20 25 30
 Pro Arg Phe Ala Cys Arg Trp Leu Gly Tyr Leu Gly Leu Leu Leu Leu
 35 40 45
 Asp Val Ile Ile Cys Leu Leu Val Leu Val Gly Leu Ile Arg Ser Ser
 50 55 60
 Lys Gly Ile Leu Val Gly Val Cys Leu Leu Gly Val Leu Ala Leu Val
 65 70 75 80
 Ile Ser Trp Gly Ala Leu Gly Leu Glu Leu Ala Val Ser Val Gly Ser
 85 90 95
 Ser Asp Phe Cys Val Asp Pro Asp Ala Tyr Val Thr Lys Met Val Glu
 100 105 110
 Glu Tyr Ser Val Leu Ser Gly Asp Ile Leu Gln Tyr Tyr Leu Ala Cys
 115 120 125
 Ser Pro Arg Ala Ala Asn Pro Phe Gln Gln Lys Leu Ser Gly Ser His
 130 135 140
 Lys Ala Leu Val Glu Met Gln Asp Val Val Ala Glu Leu Leu Arg Thr
 145 150 155 160
 Val Pro Trp Glu Gln Pro Ala Thr Lys Asp Pro Leu Leu Arg Val Gln
 165 170 175
 Glu Val Leu Asn Gly Thr Glu Val Asn Leu Gln His Leu Thr Ala Leu
 180 185 190
 Val Asp Cys Arg Ser Leu His Leu Asp Tyr Val Gln Ala Leu Thr Gly

195	200	205
Phe Cys Tyr Asp Gly Val Glu Gly Leu Ile Tyr Leu Ala Leu Phe Ser		
210	215	220
Phe Val Thr Ala Leu Met Phe Ser Ser Ile Val Cys Ser Val Pro His		
225	230	235
240		
Thr Trp Gln Gln Lys Arg Gly Pro Asp Glu Asp Gly Glu Glu Glu Ala		
245	250	255
Ala Pro Gly Pro Arg Gln Ala His Asp Ser Leu Tyr Arg Val His Met		
260	265	270
Pro Ser Leu Tyr Ser Cys Gly Ser Ser Tyr Gly Ser Glu Thr Ser Ile		
275	280	285
Pro Ala Ala Ala His Thr Val Ser Asn Ala Pro Val Thr Glu Tyr Met		
290	295	300
Ser Gln Asn Ala Asn Phe Gln Asn Pro Arg Cys Glu Asn Thr Pro Leu		
305	310	315
320		
Ile Gly Arg Glu Ser Pro Pro Pro Ser Tyr Thr Ser Ser Met Arg Ala		
325	330	335
Lys Tyr Leu Ala Thr Ser Gln Pro Arg Pro Asp Ser Ser Gly Ser His		
340	345	350

<210> 2378

<211> 551

<212> PRT

<213> Homo sapiens

<400> 2378

Met Gln Arg Phe Leu Leu Glu Ile Ser Asn Pro Glu Thr Leu Ser Asn
1 5 10 15
Thr Ala Gly Phe Glu Gly Tyr Ile Asp Leu Gly Arg Glu Leu Ser Ser
20 25 30
Leu His Ser Leu Leu Trp Glu Ala Val Ser Gln Leu Glu Gln Ser Ile
35 40 45
Val Ser Lys Leu Gly Pro Leu Pro Arg Ile Leu Arg Asp Val His Thr
50 55 60
Ala Leu Ser Thr Pro Gly Ser Gly Gln Leu Pro Gly Thr Asn Asp Leu

65		70		75		80
Ala Ser Thr Pro Gly Ser Gly Ser Ser Ser Ile Ser Ala Gly Leu Gln						
	85		90		95	
Lys Met Val Ile Glu Asn Asp Leu Ser Gly Ser Ser Gly Val Gln Pro						
	100		105		110	
Ser Pro Ala Arg Ser Ser Ser Tyr Ser Glu Ala Asn Glu Pro Asp Leu						
	115		120		125	
Gln Met Ala Asn Gly Gly Lys Ser Leu Ser Met Val Asp Leu Gln Asp						
	130		135		140	
Ala Arg Thr Leu Asp Gly Glu Ala Gly Ser Pro Ala Gly Pro Asp Val						
145		150		155		160
Leu Pro Thr Asp Gly Gln Ala Ala Ala Ala Gln Leu Val Ala Gly Trp						
	165		170		175	
Pro Ala Arg Ala Thr Pro Val Asn Leu Ala Gly Leu Ala Thr Val Arg						
	180		185		190	
Arg Ala Gly Gln Thr Pro Thr Thr Pro Gly Thr Ser Glu Gly Ala Pro						
	195		200		205	
Gly Arg Pro Gln Leu Leu Ala Pro Leu Ser Phe Gln Asn Pro Val Tyr						
	210		215		220	
Gln Met Ala Ala Gly Leu Pro Leu Ser Pro Arg Gly Leu Gly Asp Ser						
225		230		235		240
Gly Ser Glu Gly His Ser Ser Leu Ser Ser His Ser Asn Ser Glu Glu						
	245		250		255	
Leu Ala Ala Ala Ala Lys Leu Gly Ser Phe Ser Thr Ala Ala Glu Glu						
	260		265		270	
Leu Ala Arg Arg Pro Gly Glu Leu Ala Arg Arg Gln Met Ser Leu Thr						
	275		280		285	
Glu Lys Gly Gly Gln Pro Thr Val Pro Arg Gln Asn Ser Ala Gly Pro						
	290		295		300	
Gln Arg Arg Ile Asp Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro						
305		310		315		320
Ala Pro Arg Gly Arg Thr Pro Pro Asn Leu Leu Ser Thr Leu Gln Tyr						
	325		330		335	
Pro Arg Pro Ser Ser Gly Thr Leu Ala Ser Ala Ser Pro Asp Trp Val						
	340		345		350	
Gly Pro Ser Thr Arg Leu Arg Gln Gln Ser Ser Ser Ser Lys Gly Asp						

355	360	365
Ser Pro Glu Leu Lys Pro Arg Ala Val His Lys Gln Gly Pro Ser Pro		
370	375	380
Val Ser Pro Asn Ala Leu Asp Arg Thr Ala Ala Trp Leu Leu Thr Met		
385	390	395
Asn Ala Gln Leu Leu Glu Asp Glu Gly Leu Gly Pro Asp Pro Pro His		
405	410	415
Arg Asp Arg Leu Arg Ser Lys Asp Glu Leu Ser Gln Ala Glu Lys Asp		
420	425	430
Leu Ala Val Leu Gln Asp Lys Leu Arg Ile Ser Thr Lys Lys Leu Glu		
435	440	445
Glu Tyr Glu Thr Leu Phe Lys Cys Gln Glu Glu Thr Thr Gln Lys Leu		
450	455	460
Val Leu Glu Tyr Gln Ala Arg Leu Glu Glu Gly Glu Glu Arg Leu Arg		
465	470	475
Arg Gln Gln Glu Asp Lys Asp Ile Gln Met Lys Gly Ile Ile Ser Arg		
485	490	495
Leu Met Ser Val Glu Glu Glu Leu Lys Lys Asp His Ala Glu Met Gln		
500	505	510
Ala Ala Val Asp Ser Lys Gln Lys Ile Ile Asp Ala Gln Glu Lys Arg		
515	520	525
Ile Ala Ser Leu Asp Ala Ala Asn Ala Arg Leu Met Ser Ala Leu Thr		
530	535	540
Gln Leu Lys Glu Ser Met His		
545	550	

<210> 2379

<211> 461

<212> PRT

<213> Homo sapiens

<400> 2379

Met Gly Ala Gly Pro Gln His Ala Thr Leu Gln Ala Tyr Pro Glu Ala
1 5 10 15
Gly Thr Ile Glu Gly Leu Ala Ser Leu Leu Val Ala Leu Leu Glu Lys

20	25	30
Thr Thr Trp Val Asp Arg Val His Ile Leu Gln Val Leu Leu Arg Leu		
35	40	45
Leu Pro Asn Met Ser Ser Asp Leu Gln Gly Gln Leu Gln Gly Leu Leu		
50	55	60
Val His Leu Leu Asn Leu Asp Gln Pro Pro Ser Leu Gln Val Cys Pro		
65	70	75
Leu Ser Cys Pro Gln Phe Ser Ser Pro Pro Thr Gly Pro Gln Gln Pro		
85	90	95
His Pro His Arg Leu Pro Gln Asp Gln Thr Gln Lys Lys Phe Val Ile		
100	105	110
Leu Ala Leu Gln Leu Leu Leu Ala Cys Ser Leu Glu Ser Arg Asp Val		
115	120	125
Val Leu Glu Leu Met Ser Tyr Phe Leu Tyr Ser Pro Val His Cys Arg		
130	135	140
Pro Glu Leu Lys Lys Leu Leu His Gly Leu Gly Leu Gln Asp Pro Glu		
145	150	155
Gly Phe Leu Phe Lys Glu Met Met Thr Trp Val Gln Gly Pro Asp Leu		
165	170	175
Asp Ser Lys Ala Gly Leu Arg Thr Cys Cys His Gln Lys Leu Glu Asp		
180	185	190
Met Ile Gln Glu Leu Gln Glu Thr Pro Ser Gln Thr Ser Val Val Ser		
195	200	205
Gly Ala Pro Thr Arg Ala Ser Val Ile Pro Ser Gly Thr Ser Trp Ser		
210	215	220
Ala Ser Gly Ile Phe Gly Arg Leu Ser Gln Val Ser Glu Val Pro Leu		
225	230	235
Met Val Val Ser Pro Ala Glu Pro His Ser Leu Ala Pro Glu Leu Gln		
245	250	255
Ala Gln Arg Met Leu Ala Pro Thr Arg Ser Trp Gly Thr Pro Gln Leu		
260	265	270
Arg Leu Arg Val Leu Ser Glu Thr Leu Lys Ser Phe Cys Leu Glu Pro		
275	280	285
Glu Ala Arg Leu His Pro Ala Gly Pro Ala Gln Leu Pro Gly Glu Pro		
290	295	300
Pro Pro Leu Glu Glu Thr Asp Trp Ser His Ser Gln Leu Leu Asp Leu		

305 310 315 320
 Gly Pro Ile Asp Ala Leu Asn Phe Phe Cys Glu Gln Leu Arg Ala Gln
 325 330 335
 Gln Arg Ser Ser Leu Gln Glu Lys Ala Ala His Pro His Pro Pro Val
 340 345 350
 Pro Tyr Thr Val Ala Pro Val Pro Asp Met Val Val Pro Pro Pro Arg
 355 360 365
 Glu His Trp Tyr His Pro Ile Leu Arg Leu Gln Glu Ala Lys Pro Gln
 370 375 380
 Arg Ser Ala Arg Ser Ala Met Arg Leu Arg Gly Pro Met Pro Ser Arg
 385 390 395 400
 Leu Cys Ala Gly Arg Thr Leu Asp Gly Pro Ile Arg Thr Leu Lys Leu
 405 410 415
 Pro Leu Pro Arg Val Glu Pro Gln Pro Phe Pro Leu Asp Trp Pro Met
 420 425 430
 Pro Pro Arg Pro Leu Pro Pro Arg Leu Leu Gln Pro Ala Leu Gln Arg
 435 440 445
 Tyr Phe Leu Pro Ala Asp Ala Asp Pro Asp Thr Tyr Ser
 450 455 460

<210> 2380

<211> 722

<212> PRT

<213> Homo sapiens

<400> 2380

Met Glu Cys Cys Gln Thr Leu Val Ser His His Val Asp Pro Ser Leu
 1 5 10 15
 Arg Asp Glu Asp Gly Tyr Thr Ala Ala Asp Leu Ala Glu Tyr His Gly
 20 25 30
 His Arg Asp Cys Ala Gln Tyr Leu Arg Glu Val Ala Gln Pro Val Pro
 35 40 45
 Leu Leu Met Thr Pro Pro Pro Pro Phe Pro Pro Pro Pro Leu Leu
 50 55 60
 Ala Thr Arg Arg Ser Leu Glu Asp Gly Arg Arg Gly Gly Pro Gly Pro

65	70	75	80
Gly Asn Pro Ser Pro Met Ser Leu Ser Pro Ala Trp Pro Gly His Pro			
85	90	95	
Asp Gln Pro Leu Pro Arg Glu Gln Met Thr Ser Pro Ala Pro Pro Arg			
100	105	110	
Ile Ile Thr Ser Ala Thr Ala Asp Pro Glu Gly Thr Glu Thr Ala Leu			
115	120	125	
Ala Gly Asp Thr Ser Asp Gly Leu Ala Ala Leu Gln Leu Asp Gly Leu			
130	135	140	
Pro Ser Gly Asp Ile Asp Gly Leu Val Pro Thr Arg Asp Glu Arg Gly			
145	150	155	160
Gln Pro Ile Pro Glu Trp Lys Arg Gln Val Met Val Arg Lys Leu Gln			
165	170	175	
Ala Arg Leu Gly Ala Glu Ser Ser Ala Glu Ala Gln Asp Asn Gly Gly			
180	185	190	
Ser Ser Gly Pro Thr Glu Gln Ala Ala Trp Arg Tyr Ser Gln Thr His			
195	200	205	
Gln Ala Ile Leu Gly Pro Phe Gly Glu Leu Leu Thr Glu Asp Asp Leu			
210	215	220	
Val Tyr Leu Glu Lys Gln Ile Ala Asp Leu Gln Leu Arg Arg Arg Cys			
225	230	235	240
Gln Glu Tyr Glu Ser Glu Leu Gly Arg Leu Ala Ala Glu Leu Gln Ala			
245	250	255	
Leu Leu Pro Glu Pro Leu Val Ser Ile Thr Val Asn Ser His Phe Leu			
260	265	270	
Pro Arg Ala Pro Gly Leu Glu Val Glu Glu Ala Ser Val Pro Ala Ala			
275	280	285	
Glu Pro Ser Gly Ser Ala Glu Ala Ser Glu Val Ala Pro Gly Val Gln			
290	295	300	
Pro Leu Pro Phe Trp Cys Ser His Ile Ser Arg Leu Val Arg Ser Leu			
305	310	315	320
Ser Leu Leu Leu Lys Gly Val His Gly Leu Val Gln Gly Asp Glu Lys			
325	330	335	
Pro Ser Thr Arg Pro Leu Gln Asp Thr Cys Arg Glu Ala Ser Ala Ser			
340	345	350	
Pro Pro Arg Ser Glu Ala Gln Arg Gln Ile Gln Glu Trp Gly Val Ser			

355	360	365
Val Arg Thr Leu Arg Gly Asn Phe Glu Ser Ala Ser Gly Pro Leu Cys		
370	375	380
Gly Phe Asn Pro Gly Pro Cys Glu Pro Gly Ala Gln His Arg Gln Cys		
385	390	395
Leu Ser Gly Cys Trp Pro Ala Leu Pro Lys Pro Arg Ser Gly Leu Ala		
405	410	415
Ser Gly Glu Pro Arg Pro Gly Asp Thr Glu Glu Ala Ser Asp Ser Gly		
420	425	430
Ile Ser Cys Glu Glu Val Pro Ser Glu Ala Gly Ala Ala Ala Gly Pro		
435	440	445
Asp Leu Ala Ser Leu Arg Lys Glu Arg Ile Ile Met Leu Phe Leu Ser		
450	455	460
His Trp Arg Arg Ser Ala Tyr Thr Pro Ala Leu Lys Thr Ala Ala Cys		
465	470	475
Arg Thr Leu Gly Ala Arg His Ala Gly Leu Arg Gly Gln Glu Ala Ala		
485	490	495
Arg Ser Pro Gly Pro Pro Ser Pro Pro Ser Glu Gly Pro Arg Leu Gly		
500	505	510
His Leu Trp Gln Gln Arg Ser Thr Ile Thr His Leu Leu Gly Asn Trp		
515	520	525
Lys Ala Ile Met Ala His Val Pro Ala Arg Gln Leu Arg Arg Leu Ser		
530	535	540
Arg Arg Pro Arg Gly Ala Leu Ser Pro Glu Gln Phe Leu Pro His Val		
545	550	555
Asp Gly Ala Pro Val Pro Tyr Ser Ser Leu Ser Leu Asp Leu Phe Met		
565	570	575
Leu Gly Tyr Phe Gln Leu Leu Glu Cys Asp Leu Pro Ala Glu Glu Arg		
580	585	590
Lys Leu Arg His Leu Leu Cys Phe Glu Val Phe Glu His Leu Gly Thr		
595	600	605
His Gly Trp Glu Ala Val Arg Ala Phe His Lys Ala Val Thr Asp Glu		
610	615	620
Val Ala Ala Gly Arg Arg Ala Trp Thr Asp Gly Phe Glu Asp Ile Lys		
625	630	635
Ala Arg Phe Phe Gly Ser Ser Gln Arg Pro Ala Trp Asp Thr Glu Pro		

	645		650		655										
Gly	Arg	Lys	Ser	Gly	Leu	Thr	Leu	Leu	Gly	Pro	Leu	Pro	His	Ala	Ala
	660		665		670										
Val	Pro	Cys	Ser	Gly	Pro	Glu	Pro	Thr	Ala	Gln	Arg	Leu	Gly	Ser	Arg
	675		680		685										
Ser	Gln	Gln	Gly	Ser	Phe	Asn	Gly	Glu	Asp	Ile	Cys	Gly	Tyr	Ile	Asn
	690		695		700										
Arg	Ser	Phe	Ala	Phe	Trp	Lys	Glu	Lys	Glu	Ala	Glu	Met	Phe	Asn	Phe
705			710		715										720
Gly	Glu														

<210> 2381

<211> 236

<212> PRT

<213> Homo sapiens

<400> 2381

Met	Leu	Thr	Pro	Ser	Ser	Gln	Val	His	Ala	Tyr	Ile	Ile	Ser	Ser	Leu
1				5					10					15	
Lys	Lys	Glu	Met	Pro	Asn	Val	Phe	Gly	Lys	Glu	Ser	Lys	Lys	Lys	Glu
			20					25					30		
Leu	Val	Asn	Asn	Leu	Gly	Glu	Ile	Tyr	Gln	Lys	Ile	Glu	Arg	Glu	His
		35				40					45				
Gln	Ile	Ser	Pro	Gly	Asp	Phe	Pro	Ser	Leu	Arg	Lys	Met	Gln	Glu	Leu
	50				55				60						
Leu	Gln	Thr	Gln	Asp	Phe	Ser	Lys	Phe	Gln	Ala	Leu	Lys	Pro	Lys	Leu
65			70					75						80	
Leu	Asp	Thr	Val	Asp	Asp	Met	Leu	Ala	Asn	Asp	Ile	Ala	Arg	Leu	Met
			85				90					95			
Val	Met	Val	Arg	Gln	Glu	Glu	Ser	Leu	Met	Pro	Ser	Gln	Val	Val	Lys
		100					105					110			
Gly	Gly	Ala	Phe	Asp	Gly	Thr	Met	Asn	Gly	Pro	Phe	Gly	His	Gly	Tyr
	115					120						125			
Gly	Glu	Gly	Ala	Gly	Glu	Gly	Ile	Asp	Asp	Val	Glu	Trp	Val	Val	Gly

130 135 140
 Lys Asp Lys Pro Thr Tyr Asp Glu Ile Phe Tyr Thr Leu Ser Pro Val
 145 150 155 160
 Asn Gly Lys Ile Thr Gly Ala Asn Ala Lys Lys Glu Met Val Lys Ser
 165 170 175
 Lys Leu Pro Asn Thr Val Leu Gly Lys Ile Trp Lys Leu Ala Asp Val
 180 185 190
 Asp Lys Asp Gly Leu Leu Asp Asp Glu Glu Phe Ala Leu Ala Asn His
 195 200 205
 Leu Ile Lys Val Lys Leu Glu Gly His Glu Leu Pro Ala Asp Leu Pro
 210 215 220
 Pro His Leu Val Pro Pro Ser Lys Arg Arg His Glu
 225 230 235

<210> 2382

<211> 162

<212> PRT

<213> Homo sapiens

<400> 2382

Met Ile Tyr Ser Thr Leu Thr Arg Arg Arg Trp Pro Met Pro Glu Pro
 1 5 10 15
 Thr Ser Glu His Leu Asn Leu Arg Pro Cys Leu Ile Tyr Val Leu Phe
 20 25 30
 Tyr Val Gln Val Gln Pro Thr Leu Trp Cys Asn Ala Asn Leu Trp Leu
 35 40 45
 Tyr Cys Ile Thr Ala Asn Lys Ser Ile Trp Arg Lys Arg His Leu Val
 50 55 60
 Lys Gly His Ser Ala Met Glu Cys Asn Ala Ala Met Cys Asn Ala Ala
 65 70 75 80
 Tyr Lys Lys Thr Leu Gly Lys Tyr Cys Thr Gly Gln Thr Tyr Asp Pro
 85 90 95
 Thr Phe Ser Arg Asn Arg Ala Ala Tyr Trp Met Pro Ser Glu Phe Pro
 100 105 110
 Phe Ser Val Ser Thr Leu Leu Phe Asp Ala Met Pro Pro His Lys Ser

115	120	125
Ile Gln Ala Thr Val	Ile Tyr Phe Phe Pro Ser Phe Ser Pro Cys Tyr	
130	135	140
Asn Asp Pro Asn Leu Arg Phe Tyr Phe Val	Ile Phe Val Ser Phe Leu	
145	150	155
Arg Gln		160

<210> 2383

<211> 776

<212> PRT

<213> Homo sapiens

<400> 2383

Met Gly Thr Val Pro Asp Pro Leu Arg Ser Ala Lys Thr Ser Leu Ile		
1	5	10
Ala Ala Ser Gly Lys Glu Asp Asp Leu Gly Glu Pro Gln Ala Ala Ser		15
	20	25
Pro Arg His Arg Pro Ala Leu Leu Cys Lys Asn Ala Asn Gly Phe Ser		30
	35	40
Gly Ala Pro Ala Glu Pro Asp Leu Ser Pro Arg Ala Ala Ala Glu Ala		45
	50	55
Leu Met Gln Val Cys Glu His Glu Thr Thr Gln Pro Asp Met Ser Ser		60
	65	70
Pro Gly Val Phe Asn Glu Val Gln Lys Ala Pro Ala Thr Phe Asn Ser		75
	80	85
Pro Gly Asn Pro Gln Leu Pro Gly Ser Ser Gln Pro Ala Ala Ser Ala		90
	95	100
Pro Ser Ser Ala Ala Gly Arg Asp Leu Ile His Thr Pro Leu Thr Met		105
	110	115
Pro Ala Asn Gln His Thr Cys Gln Ser Ile Pro Gly Asp Gln Pro Asn		120
	125	130
Ala Ile Thr Ser Ser Met Pro Glu Asp Ser Leu Met Arg Ser Gln Arg		135
	140	145
Thr Ser Asn Arg Glu Gln Pro Glu Lys Pro Ser Cys Pro Val Gly Gly		150
	155	160

	165		170		175										
Val	Leu	Ser	Ser	Ser	Lys	Asp	Gln	Val	Ser	Cys	Glu	Phe	Pro	Ser	Pro
	180		185		190										
Glu	Thr	Ile	Gln	Gly	Thr	Val	Gln	Thr	Pro	Val	Thr	Ala	Ala	Arg	Val
	195		200		205										
Val	Ser	His	Ser	Ser	Ser	Pro	Val	Gly	Gly	Pro	Glu	Gly	Glu	Arg	Gln
	210		215		220										
Gly	Ala	Ile	Cys	Asp	Ser	Glu	Met	Arg	Ser	Cys	Lys	Pro	Leu	Thr	Arg
225			230		235										240
Glu	Ser	Gly	Cys	Ser	Glu	Asn	Lys	Gln	Pro	Ser	Val	Thr	Ala	Ser	Gly
	245		250		255										
Pro	Gln	Gly	Thr	Thr	Ser	Val	Thr	Pro	Gln	Pro	Thr	Pro	Leu	Thr	Ser
	260		265		270										
Glu	Pro	Ser	Ala	Cys	Pro	Pro	Gly	Pro	Glu	Lys	Val	Pro	Leu	Pro	Ala
	275		280		285										
Gln	Arg	Gln	Met	Ser	Arg	Phe	Lys	Glu	Ala	Ser	Thr	Met	Thr	Asn	Gln
	290		295		300										
Ala	Glu	Ser	Glu	Ile	Lys	Glu	Val	Pro	Ser	Arg	Ala	Trp	Gln	Asp	Ala
305			310		315										320
Glu	Val	Gln	Ala	Val	Ala	Ser	Val	Glu	Ser	Arg	Ser	Val	Ser	Thr	Ser
	325		330		335										
Pro	Ser	Ile	Leu	Thr	Ala	Phe	Leu	Lys	Glu	Ser	Arg	Ala	Pro	Glu	His
	340		345		350										
Phe	Glu	Gln	Glu	Gln	Leu	Arg	Val	Ile	Cys	Arg	Ser	Ser	Gly	Ser	His
	355		360		365										
Thr	Leu	Glu	Leu	Ser	Asp	Ser	Thr	Leu	Ala	Pro	Gln	Glu	Ser	Ser	Gln
	370		375		380										
Cys	Pro	Gly	Ile	Met	Pro	Gln	Val	His	Ile	Gln	Ala	Ala	Ala	Ala	Glu
385			390		395										400
Ser	Thr	Ala	Phe	Gln	Arg	Glu	Asn	Lys	Leu	Ala	Ser	Leu	Pro	Gly	Gly
	405		410		415										
Val	Leu	Lys	Thr	Ser	Ser	Ile	Asn	Leu	Val	Ser	Ser	Asn	Ala	Gln	His
	420		425		430										
Thr	Cys	Lys	Glu	Asp	Gly	Arg	Leu	Ala	Gly	Met	Thr	Pro	Ala	Arg	Glu
	435		440		445										
Glu	Ser	Thr	Ala	Lys	Lys	Leu	Ala	Gly	Thr	Asn	Ser	Ser	Ser	Leu	Lys

450	455	460	
Ala Thr Ala Ile Asp Gln Ile Ser Ile Ser Ala Cys Ser Gln Ala Glu			
465	470	475	480
Thr Ser Tyr Gly Leu Gly Lys Phe Glu Thr Arg Pro Ser Glu Phe Ala			
	485	490	495
Glu Lys Thr Thr Asn Gly His Lys Thr Asp Pro Asp Cys Lys Leu Ser			
	500	505	510
Asp Ser Cys Gly Ser Ile Ser Lys Ala Asp His Ser Gly Ser Leu Asp			
	515	520	525
Pro Thr Asn Lys Gly Asp Ala Arg Glu Lys Lys Pro Ala Ser Pro Gln			
	530	535	540
Val Val Lys Glu Lys Glu Ser Thr Gly Thr Asp Thr Ser Asp Ala Lys			
545	550	555	560
Thr Leu Leu Leu Asn Pro Lys Ser Gln Glu Ser Gly Gly Thr Glu Ser			
	565	570	575
Ala Ala Asn Pro Thr Pro Ser Pro Ile Arg Lys Asn Gln Glu Ser Thr			
	580	585	590
Leu Glu Glu Asn Arg Gln Thr Lys Thr Ala Thr Ser Leu Ser Leu Pro			
	595	600	605
Ser Asp Pro Met Gly Asp Ser Ser Pro Gly Ser Gly Lys Lys Thr Pro			
	610	615	620
Ser Arg Ser Val Lys Ala Ser Pro Arg Arg Pro Ser Arg Val Ser Glu			
625	630	635	640
Phe Leu Lys Glu Gln Lys Leu Asn Val Thr Ala Ala Ala Ala Gln Val			
	645	650	655
Gly Leu Thr Pro Gly Asp Lys Lys Lys Gln Leu Gly Ala Asp Ser Lys			
	660	665	670
Leu Gln Leu Lys Gln Ser Lys Arg Val Arg Asp Val Val Trp Asp Glu			
	675	680	685
Gln Gly Met Thr Trp Glu Val Tyr Gly Ala Ser Leu Asp Ala Glu Ser			
	690	695	700
Leu Gly Ile Ala Ile Gln Asn His Leu Gln Arg Gln Ile Arg Glu His			
705	710	715	720
Glu Lys Leu Ile Lys Thr Gln Asn Ser Gln Thr Arg Arg Ser Ile Ser			
	725	730	735
Ser Asp Thr Ser Ser Asn Lys Lys Leu Arg Gly Arg Gln His Ser Val			

740	745	750
Phe Gln Ser Met Leu Gln Asn Phe	Arg Arg Pro Asn Cys Cys Val Arg	
755	760	765
Pro Ala Pro Ser Ser Val Leu Asp		
770	775	

<210> 2384

<211> 168

<212> PRT

<213> Homo sapiens

<400> 2384

Met Asn Phe Tyr Thr His Glu Val Cys Leu Gly Gly Pro Leu Leu Trp			
1	5	10	15
Ala Pro Leu Pro Tyr Asp Gly Ser Ile Cys Ser Leu Leu Phe Gln Glu			
20	25	30	
Asp Leu Arg Pro Thr Ile Asn Gly Ser Gln Ile Gln Ile Pro Leu Gln			
35	40	45	
Ala Ala Asn Val His Pro His Tyr Arg Lys Pro Pro Asp Thr Ser His			
50	55	60	
Leu Leu Ala Ala Gln Asp Thr Gly Thr Gln Ile Leu Ala Cys Pro Glu			
65	70	75	80
Gln Trp Leu Ser Arg Pro Gly Arg Gly Ala Arg Ala Gln Ser Gln Ala			
85	90	95	
Gly Leu Pro Ala His Phe Cys Leu Pro Gly His His His Leu Pro Pro			
100	105	110	
Arg Met Asn Leu Lys Leu Gln Gly Asn Glu Glu Lys Pro Arg Ser Glu			
115	120	125	
Gly Thr Cys Asn Gln Gly Cys Pro Lys Trp Pro Leu Ser Arg Pro Ile			
130	135	140	
Ser Lys Tyr Asn Pro His Arg Gly Cys Leu Val Gly Gln Lys Ser Leu			
145	150	155	160
Gly Leu Val Pro Val Arg Gly Glu			
165			

<210> 2385

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2385

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Met Leu Cys Arg Asp Val Ala Pro Glu Gly Ile Ser Val Phe Thr Met
  1             5             10             15
Asp Met Gly Val Trp Asp Arg Leu Ser Cys Lys Gly Ser Val Ser Ile
          20             25             30
Ser Trp Asp Ser His Ser Val Ser Leu Ser Arg Phe Gln Val Thr Ser
      35             40             45
Arg Trp Thr Phe Arg Cys Pro Gly Cys Pro Gln Ala Leu Ser His Asp
      50             55             60
Asp Ser His Phe His Glu Arg His Lys Cys Ile Asn Phe Phe Val Lys
  65             70             75             80
Val Tyr Gly Tyr Met Pro Leu Leu Tyr Thr Gln Phe Arg Val Asp Ser
          85             90             95
Val Leu Phe Lys Thr Arg Leu Pro His Asp Lys Thr Lys Cys Phe Lys
      100             105             110
Phe Ile

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<210> 2386

<211> 291

<212> PRT

<213> Homo sapiens

<400> 2386

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Met His Asn Lys Arg Lys Arg Pro Arg Lys Lys Ser Pro Arg Ala His
  1             5             10             15
Arg Glu Met Leu Glu Ser Ala Val Leu Pro Pro Glu Asp Met Ser Gln
          20             25             30

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Ser Gly Pro Ser Gly Ser His Pro Gln Gly Pro Arg Gly Ser Pro Thr
 35 40 45
 Gly Gly Ala Gln Leu Leu Lys Arg Lys Arg Lys Leu Gly Val Val Pro
 50 55 60
 Val Asn Gly Ser Gly Leu Ser Thr Pro Ala Trp Pro Pro Leu Gln Gln
 65 70 75 80
 Glu Gly Pro Pro Thr Gly Pro Ala Glu Gly Ala Asn Ser His Thr Thr
 85 90 95
 Leu Pro Gln Arg Arg Arg Leu Gln Lys Lys Lys Ala Gly Pro Gly Ser
 100 105 110
 Leu Glu Leu Cys Gly Leu Pro Ser Gln Lys Thr Ala Ser Leu Lys Lys
 115 120 125
 Arg Lys Lys Met Arg Val Met Ser Asn Leu Val Glu His Asn Gly Val
 130 135 140
 Leu Glu Ser Glu Ala Gly Gln Pro Gln Ala Leu Gly Ser Ser Gly Thr
 145 150 155 160
 Cys Ser Ser Leu Lys Lys Gln Lys Leu Arg Ala Glu Ser Asp Phe Val
 165 170 175
 Lys Phe Asp Thr Pro Phe Leu Pro Lys Pro Leu Phe Phe Arg Arg Ala
 180 185 190
 Lys Ser Ser Thr Ala Thr His Pro Pro Gly Pro Ala Val Gln Leu Asn
 195 200 205
 Lys Thr Pro Ser Ser Ser Lys Lys Val Thr Phe Gly Leu Asn Arg Asn
 210 215 220
 Met Thr Ala Glu Phe Lys Lys Thr Asp Lys Ser Ile Leu Val Ser Pro
 225 230 235 240
 Thr Gly Pro Ser Arg Val Ala Phe Asp Pro Glu Gln Lys Pro Leu His
 245 250 255
 Gly Val Leu Lys Thr Pro Thr Ser Ser Pro Ala Ser Ser Pro Leu Val
 260 265 270
 Ala Lys Lys Pro Leu Thr Thr Thr Pro Arg Arg Arg Pro Arg Ala Met
 275 280 285
 Asp Phe Phe
 290

<210> 2387

<211> 241

<212> PRT

<213> Homo sapiens

<400> 2387

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Met Asn His Glu Trp Ile Gly Asn Glu Trp Leu Pro Ser Leu Gly Leu
  1             5             10             15
Pro Gln Tyr Arg Ser Tyr Phe Met Glu Cys Leu Val Asp Ala Arg Met
      20             25             30
Leu Asp His Leu Thr Lys Lys Asp Leu Arg Gly Gln Leu Lys Met Val

      35             40             45
Asp Ser Phe His Arg Asn Ser Phe Gln Cys Gly Ile Met Cys Leu Arg
      50             55             60
Arg Leu Asn Tyr Asp Arg Lys Glu Leu Glu Arg Lys Arg Glu Glu Ser
      65             70             75             80
Gln Ser Glu Ile Lys Asp Val Leu Val Trp Ser Asn Asp Arg Val Ile
      85             90             95
Arg Trp Ile Leu Ser Ile Gly Leu Lys Glu Tyr Ala Asn Asn Leu Ile
      100            105            110
Glu Ser Gly Val His Gly Ala Leu Leu Ala Leu Asp Glu Thr Phe Asp
      115            120            125
Phe Ser Ala Leu Ala Leu Leu Leu Gln Ile Pro Thr Gln Asn Thr Gln
      130            135            140
Ala Arg Ala Val Leu Glu Arg Glu Phe Asn Asn Leu Leu Val Met Gly
      145            150            155            160
Thr Asp Arg Arg Phe Asp Glu Asp Asp Asp Lys Ser Phe Arg Arg Ala
      165            170            175
Pro Ser Trp Arg Lys Lys Phe Arg Pro Lys Asp Ile Arg Gly Leu Ala
      180            185            190
Ala Gly Ser Ala Glu Thr Leu Pro Ala Asn Phe Arg Val Thr Ser Ser
      195            200            205
Met Ser Ser Pro Ser Met Gln Pro Lys Lys Met Gln Met Asp Gly Asn
      210            215            220

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Val Ser Gly Thr Gln Arg Leu Asp Ser Ala Thr Val Arg Thr Tyr Ser
 225 230 235 240
 Cys

<210> 2388

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2388

Met Pro Gln Ile Glu Gly Trp Ser His Arg Leu Pro Arg Leu Ser Pro
 1 5 10 15
 Leu Pro Val Thr Arg Pro His Ser Phe Leu Pro Pro Arg Arg Ser Gln
 20 25 30
 Gly Gly Arg Ser Arg Leu Asp Ala Phe Leu Thr Pro Phe Gln Val Ala
 35 40 45
 Pro Asp Ala Gly His Trp Glu Val Ala Thr Trp Gly His Gly His Glu
 50 55 60
 Gly Trp Val Ser Val Gly Thr Arg Arg Ala Gly Cys Trp Thr Pro Thr
 65 70 75 80
 His Pro Val Ser Cys Thr Arg Pro Tyr Ser Leu Cys Ser Gly Pro Gln
 85 90 95
 Glu Ala Val Arg Ile Gly Gly Val Pro Leu Thr Gly Pro Gly Ala Phe
 100 105 110
 His Leu Gly Ser Cys His Val His Pro Gln Ala Ser Asp Ser Trp Pro
 115 120 125
 Arg Gly Arg Trp Cys Gly Pro Gln Ala Val Cys Ala Asp Ala Ala Arg
 130 135 140

<210> 2389

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2389

Met Phe Ser Ser Lys Ser Phe Lys Val Leu Ala Leu Ile Phe Arg Leu
 1 5 10 15
 Leu Ile His Ile Glu Leu Asn Phe Val Tyr Gly Met Ile Asn Phe Ile
 20 25 30
 Tyr Asp Met Leu Tyr Met Gly Ser Thr Ser Phe Tyr Gly Tyr Leu Val
 35 40 45
 Val Gln Ala Leu Phe Val Glu Glu Ser Phe Leu Cys Pro Leu Asn Gly
 50 55 60
 Leu Val Thr Leu Val Glu Asn Lys Pro Tyr Arg Pro Met Leu Ala Ile
 65 70 75 80
 Gly Phe Ile Ser Gly Leu Ser Ile Leu Phe His Trp Phe Val Cys Val
 85 90 95
 Phe Leu Ser Leu Asn Asn Thr Ile Leu Ile Ile Val Leu Cys Ser Lys
 100 105 110
 Phe

<210> 2390

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2390

Met Val Val Val Leu Ala Tyr Ile Pro Thr Ile Ser Val Lys Ala Phe
 1 5 10 15
 Phe His His Val Cys Ala Asn Ile Asn Phe Cys Phe Phe Cys Phe Cys
 20 25 30
 Phe Cys Phe Phe Phe Glu Met Glu Ser Arg Ser Val Thr Gln Ala Gly
 35 40 45
 Val Gln Trp Cys Asp Ile Ser Ser Leu Gln Pro Leu Pro Pro Gly Phe
 50 55 60
 Lys Gln Phe Phe Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg Gln
 65 70 75 80

Leu Pro Pro Cys Leu Ala Asn Phe Cys Ile Phe Ser Arg Asp Ser Val
 85 90 95
 Ser Pro Cys Trp Ser Gly Trp Ser Gln Thr Pro Asp Leu Leu Ile Arg
 100 105 110
 Pro Pro Arg Pro Pro Lys Val Leu Gly Leu Gln Ala
 115 120

<210> 2391

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2391

Met Ala Trp Arg Pro Pro Ser Pro Asp Leu Gly Pro Gln Ala Gln Gly
 1 5 10 15
 His Ile Glu Gln Glu Asp Gly Ala Leu Pro His Ser Gly Glu Ala Glu
 20 25 30
 Arg Gly Asp Leu Pro Pro Leu Gly Pro Leu Leu Thr Pro Ser Leu Pro
 35 40 45
 Pro Thr Pro Glu Thr Ser Pro Leu Pro Thr Gly Leu Ala Thr Leu Leu
 50 55 60
 Thr Trp Pro Val Leu Asp Leu Val Asp Val Ala Ala Val Gln Arg Lys
 65 70 75 80
 Glu Arg Leu Arg Trp Gln Ser Arg Pro Leu Ser Leu Pro Lys Leu Ser
 85 90 95
 Asn Phe Ser Pro Phe Leu Pro Pro Arg Lys Leu Ala Ala Gln Ser His
 100 105 110
 Val Gln Asn Pro Ala Gly His Leu His Gly Ala Asn Tyr Gln Gln Val
 115 120 125
 Ser Phe Leu Arg His Arg Val Gln Ala Ala Thr Pro Ala Pro Glu Met
 130 135 140
 Lys Gly Gln Leu Cys Lys Asp Pro Glu Pro Ala Pro Arg Gly Pro Glu
 145 150 155 160
 Pro Pro Thr

<210> 2392

<211> 175

<212> PRT

<213> Homo sapiens

<400> 2392

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Met His Ala His Lys Gln Ala Ser Thr His Val His Ile Thr His Thr
  1             5             10             15
Ser Arg His Ser Cys Thr Asp Ser Tyr Thr Gly His Val Pro Ala Arg
          20             25             30
Thr Cys Thr His Thr His Ala Gln Ala Leu Met His Arg Cys Thr His
      35             40             45
Thr Gln Gly Met Tyr Leu His Thr Arg Val Asn Thr Arg Thr Gly Thr
      50             55             60
His Ala Asp Ala Arg Ile His Ser Ala Ser Thr Cys Thr Arg Val His
      65             70             75             80
Ile His Ala His Ala Gly Thr His Ala Gln Met His Thr Gln Cys Thr
          85             90             95
Tyr Leu His Thr Arg Val His Thr His Thr His Arg His Ser Cys Pro
          100             105             110
Asp Ala Asn Ile His Cys Thr Tyr Leu His Thr Arg Ala His Thr His
          115             120             125
Ala Gln Ala Leu Met Gln Thr Tyr Ala Gln Cys Thr Tyr Leu His Thr
          130             135             140
Arg Thr His Thr His Thr Gln Ala Leu Met His Arg Cys Thr His Thr
          145             150             155             160
Gln Cys Thr Tyr Leu His Thr Arg Val His Ala His Thr Val Pro
          165             170             175

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<210> 2393

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2393

Met Pro Glu Gln Ser Asn Asp Tyr Arg Val Ala Val Phe Gly Ala Gly
 1 5 10 15
 Gly Val Gly Lys Ser Ser Leu Val Leu Arg Phe Val Lys Gly Thr Phe
 20 25 30
 Arg Glu Ser Tyr Ile Pro Thr Val Glu Asp Thr Tyr Arg Gln Val Ile
 35 40 45
 Ser Cys Asp Lys Ser Ile Cys Thr Leu Gln Ile Thr Asp Thr Thr Gly
 50 55 60
 Ser His Gln Phe Pro Ala Met Gln Arg Leu Ser Ile Ser Ile Thr Ser
 65 70 75 80
 Arg Gln Ser Leu Glu Glu Leu Lys Pro Ile Tyr Glu Gln Ile Cys Glu
 85 90 95
 Ile Lys Gly Asp Val Glu Ser Ile Pro Ile Met Leu Val Gly Asn Lys
 100 105 110
 Cys Asp Glu Ser Pro Ser Arg Glu Val Gln Ser Ser Glu Ala Glu Ala
 115 120 125
 Leu Ala Arg Thr Trp Lys Cys Ala Phe Met Glu Thr Ser Ala Lys Leu
 130 135 140
 Asn His Asn Val Lys Glu Leu Phe Gln Glu Leu Leu Asn Leu Glu Lys
 145 150 155 160
 Arg Arg Thr Val Ser Leu Gln Ile Asp Gly Lys Lys Ser Lys Gln Gln
 165 170 175
 Lys Arg Lys Glu Lys Leu Lys Gly Lys Cys Val Ile Met
 180 185

<210> 2394

<211> 190

<212> PRT

<213> Homo sapiens

<400> 2394

Met Ala Ala Ser Gln Gln Gln Ala Ser Ala Ala Ser Ser Ala Ala Gly
 1 5 10 15

Val Ser Gly Pro Ser Ser Ala Gly Gly Pro Gly Pro Gln Gln Gln Pro
 20 25 30
 Gln Pro Pro Ala Gln Leu Val Gly Pro Ala Gln Ser Gly Leu Leu Gln
 35 40 45
 Arg Tyr Lys Met Leu Ile Pro Gln Leu Lys Glu Ser Leu Gln Thr Leu
 50 55 60
 Met Lys Val Ala Ala Gln Asn Leu Ile Gln Asn Thr Asn Ile Asp Asn
 65 70 75 80
 Gly Gln Lys Ser Ser Asp Gly Pro Ile Gln Arg Phe Asp Lys Cys Leu
 85 90 95
 Glu Glu Phe Tyr Ala Leu Cys Asp Gln Leu Glu Leu Cys Leu Arg Leu
 100 105 110
 Ala His Glu Cys Leu Ser Gln Ser Cys Asp Ser Ala Lys His Ser Pro
 115 120 125
 Thr Leu Val Pro Thr Ala Thr Lys Pro Asp Ala Val Gln Pro Asp Ser
 130 135 140
 Leu Pro Tyr Pro Gln Tyr Leu Ala Val Ile Lys Ala Gln Ile Ser Cys
 145 150 155 160
 Ala Lys Asp Ile His Thr Ala Leu Leu Asp Cys Ala Asn Lys Val Thr
 165 170 175
 Gly Lys Thr Pro Ala Pro Pro Ala Gly Pro Gly Gly Thr Leu
 180 185 190

<210> 2395

<211> 174

<212> PRT

<213> Homo sapiens

<400> 2395

Met Ser Glu Phe Pro Phe Thr Thr Asn Arg Ile Lys Tyr Leu Gly Ile
 1 5 10 15
 Gln Leu Thr Arg Asp Val Lys Asp Leu Phe Lys Glu His Tyr Lys Pro
 20 25 30

Leu	Leu	Lys	Glu	Ile	Arg	Gly	His	Lys	Gln	Met	Glu	Lys	Asn	Ile	Leu
35					40					45					
Cys	Ser	Trp	Ile	Gly	Arg	Ile	Asn	Ile	Val	Lys	Met	Ala	Ile	Leu	Pro
50					55					60					
Lys	Val	Ile	Tyr	Arg	Phe	Lys	Ala	Thr	Pro	Ile	Lys	Leu	Pro	Leu	Thr
65					70					75					80
Phe	Phe	Ala	Glu	Leu	Glu	Lys	Thr	Thr	Leu	Asn	Phe	Leu	Trp	Asn	His
85					90					95					
Lys	Arg	Ala	His	Ile	Val	Lys	Thr	Ile	Leu	Ser	Lys	Lys	Lys	Ala	Gly
100					105					110					
Gly	Ile	Arg	Leu	Pro	Asp	Phe	Lys	Leu	Tyr	Tyr	Lys	Ala	Asn	Gln	Asn
115					120					125					
Thr	Tyr	Arg	Gly	Gln	Trp	Asn	Arg	Thr	Glu	Thr	Ser	Glu	Ile	Thr	Pro
130					135					140					
Asp	Ile	Tyr	Leu	Gly	Ile	Gln	Leu	Val	Ser	Asn	Ser	Arg	Pro	Gln	Val
145					150					155					160
Ile	Leu	Leu	Pro	Trp	Pro	Pro	Lys	Val	Leu	Gly	Leu	Gln	Ala		
165					170										

<210> 2396

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2396

Met	Leu	Ala	Cys	Cys	Ser	Pro	Pro	Thr	Met	Gln	Pro	Gly	Ser	Tyr	Gln
1					5				10					15	
Ala	Thr	Asp	Gln	Tyr	Gln	Ser	Thr	Ala	Gln	Gly	Leu	Gly	Thr	Pro	Gly
				20				25					30		
Val	Ser	Ser	Gly	Ser	Phe	Ala	Leu	Pro	Met	Pro	Pro	Gly	Leu	Ala	Ala
				35				40					45		
Val	Leu	Glu	Thr	Gly	Val	Ser	Arg	Arg	Leu	Cys	Ser	Trp	Trp	Ala	Gly
	50					55				60					
Ala	Glu	Met	Ala	Glu	Ala	His	Pro	Ile	Ile	Cys	Gln	Lys	Glu	Asp	Thr
65					70					75					80

Leu Val Ser Pro Gly Leu Gly Thr Leu Gln Phe Ala Ala Leu Leu Arg
 85 90 95
 Leu Ala Ser Gly Gln Leu Leu Thr Leu Pro Leu Thr Pro Gln Ser Gln
 100 105 110
 Ala Pro Asp Ala Pro Trp Thr Ser Pro Thr Pro Arg Val Ile Trp Ser
 115 120 125
 Gly Ser Ala Gly Val Thr Leu Ser Leu Thr Lys Gly Phe
 130 135 140

<210> 2397

<211> 445

<212> PRT

<213> Homo sapiens

<400> 2397

Met Pro Asn Ser Ser Pro Lys Asp Pro Thr Thr Ala Ser Gly Asn Gly
 1 5 10 15
 Ser Lys Val Glu Arg Glu Lys Arg Lys Asp Glu Leu Leu Asn Ile Ala
 20 25 30
 Lys Ser Lys Gln Glu Arg Thr Asn Ser Glu Leu His Asn Leu Arg Gln
 35 40 45
 Ile Tyr Val Lys Gln Gln Ser Asp Leu Gln Phe Leu Asn Phe Asn Val
 50 55 60
 Glu Asn Ser Gln Glu Leu Ile Gln Met Tyr Asp Ser Lys Met Glu Glu
 65 70 75 80
 Ser Lys Ala Leu Asp Ser Ser Arg Asp Met Cys Leu Ser Asp Leu Glu
 85 90 95
 Asn Asn His Pro Lys Val Asp Ile Lys Arg Glu Lys Asn Gln Lys Ser
 100 105 110
 Leu Phe Lys Asp Gln Lys Phe Glu Ala Met Leu Val Gln Gln Asn Arg
 115 120 125
 Ser Asp Lys Ser Ser Cys Asp Glu Cys Lys Glu Lys Lys Gln Gln Ile
 130 135 140
 Asp Thr Val Phe Gly Glu Lys Ser Val Ile Thr Leu Ser Ser Ile Phe
 145 150 155 160

Thr Lys Asp Leu Val Glu Lys His Asn Leu Pro Trp Ser Leu Gly Gly
 165 170 175
 Lys Thr Gln Ile Glu Pro Glu Asn Lys Ile Thr Leu Cys Lys Ile His
 180 185 190
 Thr Lys Ser Pro Lys Cys His Gly Thr Gly Val Gln Asn Glu Gly Lys
 195 200 205
 Gln Pro Ser Glu Thr Pro Thr Leu Ser Asp Glu Lys Gln Trp His Asp
 210 215 220
 Val Ser Val Tyr Leu Gly Leu Thr Asn Cys Pro Ser Ser Lys His Pro
 225 230 235 240
 Glu Lys Leu Asp Val Glu Cys Gln Asp Gln Met Glu Arg Ser Glu Ile
 245 250 255
 Ser Cys Cys Gln Lys Asn Glu Ala Cys Leu Gly Glu Ser Gly Met Cys
 260 265 270
 Asp Ser Lys Cys Cys His Pro Ser Asn Phe Ile Ile Glu Ala Pro Gly
 275 280 285
 His Met Ser Asp Val Glu Trp Met Ser Ile Phe Lys Pro Ser Lys Met
 290 295 300
 Gln Arg Ile Val Arg Leu Lys Ser Gly Cys Thr Cys Ser Glu Ser Ile
 305 310 315 320
 Cys Gly Thr Gln His Asp Ser Pro Ala Ser Glu Leu Ile Ala Ile Gln
 325 330 335
 Asp Ser His Ser Leu Gly Ser Ser Lys Ser Ala Leu Arg Glu Asp Glu
 340 345 350
 Thr Glu Ser Ser Ser Asn Lys Lys Asn Ser Pro Thr Ser Leu Leu Ile
 355 360 365
 Tyr Lys Asp Ala Pro Ala Phe Asn Glu Lys Ala Ser Ile Val Leu Pro
 370 375 380
 Ser Gln Asp Asp Phe Ser Pro Thr Ser Lys Leu Gln Arg Leu Leu Ala
 385 390 395 400
 Glu Ser Arg Gln Met Val Thr Asp Leu Glu Leu Ser Thr Leu Leu Pro
 405 410 415
 Ile Ser His Glu Asn Leu Thr Gly Ser Ala Thr Asn Lys Ser Glu Val
 420 425 430
 Pro Glu Glu Ser Ala Gln Lys Asn Thr Phe Val Ser Tyr

435

440

445

<210> 2398

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2398

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Met Glu Lys Gly Leu Ser Ser Thr Ile Arg Val Val Gly His Val Pro
  1              5              10              15
Gly Glu Phe Pro Val Ser Val Trp Val Thr Ala Ala Asp Cys Trp Met
      20              25              30
Cys Gln Pro Val Ala Arg Gly Phe Val Val Leu Pro Ile Thr Glu Phe
      35              40              45
Leu Val Gly Asp Leu Val Val Thr Gln Asn Thr Ser Leu Pro Trp Pro
      50              55              60
Ser Ser Tyr Leu Thr Lys Thr Val Leu Lys Val Ser Phe Leu Leu His
      65              70              75              80
Asp Pro Ser Asn Phe Leu Lys Thr Ala Leu Phe Leu Tyr Ser Trp Asp
      85              90              95
Phe Gly Asp Gly Thr Gln Met Val Thr Glu Asp Ser Val Val Tyr Tyr
      100             105             110
Asn Tyr Ser Ile Ile Gly Thr Phe Thr Val Lys Leu Lys Val Val Ala
      115             120             125
Glu Trp Glu Glu Val Glu Pro Asp Ala Thr Arg Ala Val Lys Gln Lys
      130             135             140
Thr Gly Asp Phe Ser Ala Ser Leu Lys Leu Gln Glu Thr Leu Arg Gly
      145             150             155             160
Ile Gln Val Leu Gly Pro Thr Leu Ile Gln Thr Phe Gln Lys Met Thr
      165             170             175
Val Thr Leu Asp Phe Leu Gly Ser Pro Pro Leu Thr Val Cys Trp Arg
      180             185             190
Leu Lys Pro Glu Cys Leu Pro Leu Glu Glu Gly Glu Cys His Pro Val
      195             200             205
Ser Val Ala Ser Thr Ala Tyr Asn Leu Thr His Thr Phe Arg Asp Pro

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210	215	220	
Gly Asp Tyr Cys Phe Ser Ile Arg Ala Glu Asn Ile Ile Ser Lys Thr			
225	230	235	240
His Gln Tyr His Lys Ile Gln Val Trp Pro Ser Arg Ile Gln Pro Ala			
	245	250	255
Val Phe Ala Phe Pro Cys Ala Thr Leu Ile Thr Val Met Leu Ala Phe			
	260	265	270
Ile Met Tyr Met Thr Leu Arg Asn Ala Thr Gln Gln Lys Asp Met Val			
	275	280	285
Glu Asn Pro Glu Pro Pro Ser Gly Val Arg Cys Cys Cys Gln Met Cys			
	290	295	300
Cys Gly Pro Phe Leu Leu Glu Thr Pro Ser Glu Tyr Leu Glu Ile Val			
305	310	315	320
Arg Glu Asn His Gly Leu Leu Pro Pro Leu Tyr Lys Ser Val Lys Thr			
	325	330	335
Tyr Thr Val			

<210> 2399

<211> 196

<212> PRT

<213> Homo sapiens

<400> 2399

Met Ser Pro Trp Lys Asp Gly Gly Ser Leu Val Glu Val Tyr Leu Leu			
1	5	10	15
Asp Thr Ser Ile Gln Ser Asp His Arg Glu Ile Glu Gly Arg Val Met			
	20	25	30
Val Thr Asp Phe Glu Asn Val Pro Glu Glu Asp Gly Thr Arg Phe His			
	35	40	45
Arg Gln Ala Ser Lys Cys Asp Ser His Gly Thr His Leu Ala Gly Val			
	50	55	60
Val Ser Gly Arg Asp Ala Gly Val Ala Lys Gly Ala Ser Met Arg Ser			
65	70	75	80
Leu Arg Val Leu Asn Cys Gln Gly Lys Gly Thr Val Ser Gly Thr Leu			

	85		90		95
Ile Gly Leu Glu Phe Ile Arg Lys Ser Gln Leu Val Gln Pro Val Gly					
100		105		110	
Pro Leu Val Val Leu Leu Pro Leu Ala Gly Gly Tyr Ser Arg Val Leu					
115		120		125	
Asn Ala Ala Cys Gln Arg Leu Ala Arg Ala Gly Val Val Leu Val Thr					
130		135		140	
Ala Ala Gly Asn Phe Arg Asp Asp Ala Cys Leu Tyr Ser Pro Ala Ser					
145		150		155	160
Ala Pro Glu Gly Arg Thr Ser Leu Val Pro Pro Ala Thr Ala Ala Pro					
	165		170		175
Ala Leu Cys His Arg Val Gly His His Arg Leu Leu Pro Thr Trp Leu					
	180		185		190
Ala Leu Gln Pro					
195					

<210> 2400

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2400

Met Cys His Tyr Ala Trp Leu Ile Phe Val Glu Met Arg Phe His His				
1	5	10	15	
Val Ala Gln Ala Gly Leu Tyr Leu Leu Ser Ser Ser Asp Leu Pro Ala				
20	25	30		
Ser Ala Ser Gln Cys Trp Val Cys Arg His Glu Pro Leu Cys Pro Val				
35	40	45		
Arg Met Ala Ile Leu Met Ile Lys Ala Lys Ile Phe Ile Leu Leu Ser				
50	55	60		
Arg Phe Gly Ile His Ile Pro Glu Asn Ser Met Ile His Pro Leu Thr				
65	70	75	80	
Thr Asn Phe Arg Lys Gln Ala Val Leu Phe His Ser Leu Lys Asn Asn				
	85	90	95	
Arg Ser Pro Ser Asn Lys				

100

<210> 2401

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2401

Met Lys Phe Phe His Asp Leu Asp Val Ile Leu Gln Tyr Glu Pro Ala
 1 5 10 15
 Thr Gln Phe Thr Glu Glu Asp Ala Asn Gly Arg Tyr Leu Glu Thr Leu
 20 25 30
 Ser Pro Ser Thr Ala Pro Glu Thr Thr Glu Glu Phe Leu Leu Val Cys
 35 40 45
 Asp Thr Arg Lys Lys Gly Arg Lys Arg Lys Cys Leu Phe His Cys Trp
 50 55 60
 Asp Gln Pro His Ala Ser Gly Lys Met Ser Ile Ala Ser Val Asp Lys
 65 70 75 80
 Glu Asp Val Ser Gly Asn Pro Leu Leu Leu Val Ser His Val Arg Pro
 85 90 95
 Met Glu Leu Gly Thr Leu Arg Gln Tyr Trp Asn Pro Leu Ile Ile Gln
 100 105 110
 Leu Leu Thr Gln Leu
 115

<210> 2402

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2402

Met Gln Ser Lys Leu Ile Leu Ser Leu Cys Thr Phe Val Ser Ala Gly
 1 5 10 15
 His Cys Leu Phe Arg Glu Leu Val Ala Gln Gly Leu His Met Gly Ala

20 25 30
 Lys Met Val Val Asp Thr Pro Trp Cys Thr Phe Cys Phe Thr Cys Phe
 35 40 45
 Leu Arg Leu Phe His Lys Ser Cys Glu Ala Lys Lys Gln Asn Lys Thr
 50 55 60
 Lys Gln Pro Asn Lys Tyr Asn Leu Thr Phe Thr Gln Ser Thr Ala Gly
 65 70 75 80
 Asn Gln Arg Ser Gly Trp Asn Glu Arg Lys Tyr Ala Lys Arg Ser Phe
 85 90 95
 Leu Ser Leu Ile Ser Cys Leu
 100

<210> 2403

<211> 172

<212> PRT

<213> Homo sapiens

<400> 2403

Met Gln Glu Gly Pro Ser Gly Ala Gly Leu Gly Pro His Ile Gly Leu
 1 5 10 15
 Pro Gly His Leu Ile Tyr Leu Gly Ser Asn Lys Glu Pro Trp Arg Gln
 20 25 30
 Ala Arg Ala Val Ala Lys Arg Pro Arg Ser Cys Gly Thr Arg Leu Val
 35 40 45
 Pro Ala Ser Val Pro Leu Ser Leu Glu Phe Gly Arg Ala Leu Ser Ser
 50 55 60
 Ala Gly Val Cys Ser Arg Pro Met Pro Glu Val Gly Pro Leu Ala Ile
 65 70 75 80
 Val Ser Ile Gly Gly Val Ser Ser Pro Pro Ser Gly Asn Pro Tyr Ser
 85 90 95
 Gly Thr Leu His Cys Cys Gly Gly Val His Thr Gly Gly Cys Glu Ser
 100 105 110
 His Cys Ala Val Leu Ala Gln Gly Ser Gly Lys Gly Phe Trp Glu Gly
 115 120 125
 Met Gly Thr Lys Leu Asp Leu Asn Asp Glu Ala Glu Leu Val Ser Gln

130	135	140	
Ala Arg Gly Val Gln Arg Asp His Ser Ala Glu Ala Lys Ala Val Lys			
145	150	155	160
Lys Val Ala Trp Met Val Thr His Arg Ser Arg Ala			
165	170		

<210> 2404

<211> 711

<212> PRT

<213> Homo sapiens

<400> 2404

Met Leu Ala Ser Leu Lys Val Lys Lys Gln Glu Leu Ala Asn Ser Ser			
1	5	10	15
Asp Ala Thr Leu Pro Asp Arg Pro Leu Ser Pro Pro Leu Thr Ala Pro			
20	25	30	
Pro Thr Met Lys Ser Ser Glu Phe Phe Glu Met Leu Glu Lys Met Gln			
35	40	45	
Gly Ile Lys Leu Glu Glu Gln Lys Pro Gly Pro Gln Lys Asn Lys Asp			
50	55	60	
Asp Tyr Ile Pro Tyr Pro Ser Ile Asp Glu Val Val Glu Lys Gly Gly			
65	70	75	80
Pro Tyr Pro Gln Val Ile Leu Pro Gln Phe Gly Gly Tyr Trp Ile Glu			
85	90	95	
Asp Pro Glu Asn Val Gly Thr Pro Thr Ser Leu Gly Ser Ser Ile Cys			
100	105	110	
Glu Glu Glu Glu Glu Asp Asn Leu Ser Pro Asn Thr Phe Gly Tyr Lys			
115	120	125	
Leu Glu Cys Lys Gly Glu Ala Arg Ala Tyr Arg Arg His Phe Leu Gly			
130	135	140	
Lys Asp His Leu Asn Phe Tyr Cys Thr Gly Ser Ser Leu Gly Asn Leu			
145	150	155	160
Ile Leu Ser Val Lys Cys Glu Glu Ala Glu Gly Ile Glu Tyr Leu Arg			
165	170	175	
Val Ile Leu Arg Ser Lys Leu Lys Thr Val His Glu Arg Ile Pro Leu			

180	185	190
Ala Gly Leu Ser Lys Leu Pro Ser Val Pro Gln Ile	Ala Lys Ala Phe	
195	200	205
Cys Asp Asp Ala Val Gly Leu Arg Phe Asn Pro Val	Leu Tyr Pro Lys	
210	215	220
Ala Ser Gln Met Ile Val Ser Tyr Asp Glu His Glu Val	Asn Asn Thr	
225	230	235
Phe Lys Phe Gly Val Ile Tyr Gln Lys Ala Arg Gln Thr	Leu Glu Glu	
245	250	255
Glu Leu Phe Gly Asn Asn Glu Glu Ser Leu Ala Phe Lys	Glu Phe Leu	
260	265	270
Asp Leu Leu Gly Asp Thr Ile Thr Leu Gln Asp Phe Lys	Gly Phe Arg	
275	280	285
Gly Gly Leu Asp Val Thr His Gly Gln Thr Gly Val Glu	Ser Val Tyr	
290	295	300
Thr Thr Phe Arg Asp Arg Glu Ile Met Phe His Val Ser	Thr Lys Leu	
305	310	315
Pro Phe Thr Asp Gly Asp Ala Gln Gln Leu Gln Arg Lys	Arg His Ile	
325	330	335
Gly Asn Asp Ile Val Ala Ile Ile Phe Gln Glu Glu Asn	Thr Pro Phe	
340	345	350
Val Pro Asp Met Ile Ala Ser Asn Phe Leu His Ala Tyr	Ile Val Val	
355	360	365
Gln Val Glu Thr Pro Gly Thr Glu Thr Pro Ser Tyr Lys	Val Ser Val	
370	375	380
Thr Ala Arg Glu Asp Val Pro Thr Phe Gly Pro Pro Leu	Pro Ser Pro	
385	390	395
Pro Val Phe Gln Lys Gly Pro Glu Phe Arg Glu Phe Leu	Leu Thr Lys	
405	410	415
Leu Thr Asn Ala Glu Asn Ala Cys Cys Lys Ser Asp Lys	Phe Ala Lys	
420	425	430
Leu Glu Asp Arg Thr Arg Ala Ala Leu Leu Asp Asn Leu	His Asp Glu	
435	440	445
Leu His Ala His Thr Gln Ala Met Leu Gly Leu Gly Pro	Glu Glu Asp	
450	455	460
Lys Phe Glu Asn Gly Gly His Gly Gly Phe Leu Glu Ser	Phe Lys Arg	

465 470 475 480
 Ala Ile Arg Val Arg Ser His Ser Met Glu Thr Met Val Gly Gly Gln
 485 490 495
 Lys Lys Ser His Ser Gly Gly Ile Pro Gly Ser Leu Ser Gly Gly Ile
 500 505 510
 Ser His Asn Ser Met Glu Val Thr Lys Thr Thr Phe Ser Pro Pro Val
 515 520 525
 Val Ala Ala Thr Val Lys Asn Gln Ser Arg Ser Pro Ile Lys Arg Arg
 530 535 540
 Ser Gly Leu Phe Pro Arg Leu His Thr Gly Ser Glu Gly Gln Gly Asp
 545 550 555 560
 Ser Arg Ala Arg Cys Asp Ser Thr Ser Ser Thr Pro Lys Thr Pro Asp
 565 570 575
 Gly Gly His Ser Ser Gln Glu Ile Lys Ser Glu Thr Ser Ser Asn Pro
 580 585 590
 Ser Ser Pro Glu Ile Cys Pro Asn Lys Glu Lys Pro Phe Met Lys Leu
 595 600 605
 Lys Glu Asn Gly Arg Ala Ile Ser Arg Ser Ser Ser Ser Thr Ser Ser
 610 615 620
 Val Ser Ser Thr Ala Gly Glu Gly Glu Ala Met Glu Glu Gly Asp Ser
 625 630 635 640
 Gly Gly Ser Gln Pro Ser Thr Thr Ser Pro Phe Lys Gln Glu Val Phe
 645 650 655
 Val Tyr Ser Pro Ser Pro Ser Ser Glu Ser Pro Ser Leu Gly Ala Ala
 660 665 670
 Ala Thr Pro Ile Ile Met Ser Arg Ser Pro Thr Asp Ala Lys Ser Arg
 675 680 685
 Asn Ser Pro Arg Ser Asn Leu Lys Phe Arg Phe Asp Lys Leu Ser His
 690 695 700
 Ala Ser Ser Gly Ala Gly His
 705 710

<210> 2405

<211> 165

<212> PRT

<213> Homo sapiens

<400> 2405

Met Glu His Met Glu Phe Arg Arg Lys Pro Thr Lys Thr Pro Ala Cys
 1 5 10 15
 Gln Thr His Pro Val Pro Glu Arg Gly Val Pro Leu Ser Phe Asn Glu
 20 25 30
 Leu Pro Val Ile Thr Ala Met Pro Ser Pro Arg Trp Gly Gly Val Leu
 35 40 45
 Gly Cys Phe Ser Gln Arg Pro Leu Phe Pro Ala Ala Ile Ser Phe Thr
 50 55 60
 Trp Thr Thr Leu Leu Ala His Val Pro Leu Ala Ser Thr Gly Gly His
 65 70 75 80
 Arg Pro Glu Pro Trp Val Gln Gly Cys Pro Ser Leu Leu Pro Ser Pro
 85 90 95
 Pro Leu Lys Ala Gln Ser Cys Trp Val Gly Cys Leu Gly Leu Pro Ser
 100 105 110
 Phe Pro Trp Lys Pro Val Ala Thr Leu Val His Gly Thr Leu Asp Lys
 115 120 125
 Ser Ala Pro Arg Gly Gln Thr Cys Ala Pro Ile Leu Ala Cys Ile Leu
 130 135 140
 Arg Thr Pro His Ala Ala Gly Leu Cys Ala Trp Gly Gly Val Ala Ser
 145 150 155 160
 Leu Ser Trp Ser Val
 165

<210> 2406

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2406

Met Ala His Gly Ser Thr Gln Ala Phe Leu Ser Pro Trp Ser Ser Gln
 1 5 10 15

Leu Leu Thr Ser Thr Thr Cys Arg Ile Arg Gly His Arg Ser Arg Gln
 20 25 30
 Arg Glu Gly Val Thr Arg Gly Gln Met Val Gln Gly Arg Arg Asp Ser
 35 40 45
 Arg Leu His Ala Gly Gln Arg Asn Ser Lys Gly Arg Arg Ile Ala Glu
 50 55 60
 Ala Gly Gly Lys Ala Ala Arg Ala Arg Gly Thr Gln Ser Tyr Cys Thr
 65 70 75 80
 Pro Lys Arg Gln Pro Val Leu Glu Arg Ala Ala Ala Lys Pro Ile Tyr
 85 90 95
 Cys Ser Phe Tyr Tyr Ser Val Leu Pro Gly Leu Arg Pro Gly Lys Leu
 100 105 110
 Phe Gln Ala Glu Ile Thr Ala His
 115 120

<210> 2407

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2407

Met Gly Glu Cys Tyr Pro Cys Gln Val Val Gly Ala Ser Trp Leu Gln
 1 5 10 15
 Ser Trp Val Gly Asp Leu Gly Lys Met Leu Trp Lys Ala Val Ser Gly
 20 25 30
 Trp Cys Gln Leu Leu Val Val Gln Trp Glu Ile Trp Ser Gly Met Gly
 35 40 45
 Trp Ser Glu Gly Gly Arg Gly Ile Trp Cys Gly Val Asp Gln Arg Asn
 50 55 60
 Phe Gly Lys Ala Trp Lys His Ser Tyr Val Cys Glu Thr His Leu Cys
 65 70 75 80
 Gln Gly Lys Asp Ser Lys Leu Lys Phe Phe Ser Cys Leu Leu Val Thr
 85 90 95
 Arg Thr Trp Leu Trp Ser Val Thr Leu Ala

100

105

<210> 2408

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2408

Met Pro Phe Pro Pro Arg Pro Ala Pro Arg Pro Pro Ser Arg Thr Ala
 1 5 10 15
 Ala Leu Gly Glu Asp Glu Asp Gly Arg Lys Val Arg Ala Gly Leu Ser
 20 25 30
 Thr Gly Lys Arg Glu Gln Asp Gly Asp Phe Gly Arg Gln Trp Gly Glu
 35 40 45
 Leu Met Gly Arg Val Gln Ala Pro Phe Leu Gln Pro Leu Ala Thr Trp
 50 55 60
 Ser Ser Asp Gly Gly Ala Val Leu Ser Leu Thr Pro Glu Thr Leu Ile
 65 70 75 80
 Pro Ala Val Leu Arg Gly Val Asp Asn Lys Phe His Phe Pro Ser Pro
 85 90 95
 Val Leu Phe Trp Glu Val Gly Thr Pro Gly Phe Gly Gly
 100 105

<210> 2409

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2409

Met Ile Ser Ile Thr Glu Trp Gln Lys Ile Gly Val Gly Ile Thr Gly
 1 5 10 15
 Phe Gly Ile Phe Phe Ile Leu Phe Gly Thr Leu Leu Tyr Phe Asp Ser
 20 25 30
 Val Leu Leu Ala Phe Gly Asn Leu Leu Phe Leu Thr Gly Leu Ser Leu

35 40 45
 Ile Ile Gly Leu Arg Lys Thr Phe Trp Phe Phe Phe Gln Arg His Lys
 50 55 60
 Leu Lys Gly Thr Ser Phe Leu Leu Gly Gly Val Val Ile Val Leu Leu
 65 70 75 80
 Arg Trp Pro Leu Leu Gly Met Phe Leu Glu Thr Tyr Gly Phe Phe Ser
 85 90 95
 Leu Phe Lys Gly Phe Phe Pro Val Ala Phe Gly Phe Leu Gly Asn Val
 100 105 110
 Cys Asn Ile Pro Phe Leu Gly Ala Leu Phe Arg Arg Leu Gln Gly Thr
 115 120 125
 Ser Ser Met Val
 130

<210> 2410

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2410

Met Ala Glu Ala Ser Ser Ala Asn Leu Gly Ser Gly Cys Glu Glu Lys
 1 5 10 15
 Arg His Glu Gly Ser Ser Ser Glu Ser Val Pro Pro Gly Thr Thr Ile
 20 25 30
 Ser Arg Val Lys Leu Leu Asp Thr Met Val Asp Thr Phe Leu Gln Lys
 35 40 45
 Leu Val Ala Ala Gly Ser Tyr Gln Arg Phe Thr Asp Cys Tyr Lys Cys
 50 55 60
 Phe Tyr Gln Leu Gln Pro Ala Met Thr Gln Arg Ile Tyr Asp Lys Phe
 65 70 75 80
 Ile Ala Gln Leu Gln Thr Ser Ile Arg Glu Glu Ile Ser Asp Ile Lys
 85 90 95
 Glu Glu Gly Asn Leu Glu Ala Val Leu Asn Ala Leu Asp Lys Ile Val
 100 105 110
 Glu Glu Gly Lys Val Arg Lys Glu Pro Ala Cys Asn Gly Thr Pro Cys

115	120	125
Gly Ala Met Cys Arg Asn Arg Arg Pro Arg Thr Ser Ser Trp Gln Met		
130	135	140
Pro Ser Trp Gln Gly Gly Gly Arg Trp Arg Ser Cys Ser Tyr Arg Ser		
145	150	155
Arg Pro Ser Ser Arg Pro Gly Arg Leu Tyr Thr Glu Asn Arg Gly Ser		
165	170	175
Trp Leu Leu Cys		
180		

<210> 2411

<211> 409

<212> PRT

<213> Homo sapiens

<400> 2411

Met Gly Ser Gln Ala Ala Ala Glu Trp Arg Asn Trp Ala Ser Trp Glu		
1	5	10
Val Ser Ser Ser Leu Ser Gly Cys Ser Met Gly Cys Phe Lys Asp Asp		
20	25	30
Arg Ile Val Phe Trp Thr Trp Met Phe Ser Thr Tyr Phe Met Glu Lys		
35	40	45
Trp Ala Pro Arg Gln Asp Asp Met Leu Phe Tyr Val Arg Arg Lys Leu		
50	55	60
Ala Tyr Ser Gly Ser Glu Ser Gly Ala Asp Gly Arg Lys Ala Ala Glu		
65	70	75
Pro Glu Val Glu Val Glu Val Tyr Arg Arg Asp Ser Lys Lys Leu Pro		
85	90	95
Gly Leu Gly Asp Pro Asp Ile Asp Trp Glu Glu Ser Val Cys Leu Asn		
100	105	110
Leu Ile Leu Gln Lys Leu Asp Tyr Met Val Thr Cys Ala Val Cys Thr		
115	120	125
Arg Ala Asp Gly Gly Asp Ile His Ile His Lys Lys Lys Ser Gln Gln		
130	135	140
Val Phe Ala Ser Pro Ser Lys His Pro Met Asp Ser Lys Gly Glu Glu		

145	150	155	160
Ser Lys Ile Ser Tyr Pro Asn Ile Phe Phe Met Ile Asp Ser Phe Glu			
165	170	175	
Glu Val Phe Ser Asp Met Thr Val Gly Glu Gly Glu Met Val Cys Val			
180	185	190	
Glu Leu Val Ala Ser Asp Lys Thr Asn Thr Phe Gln Gly Val Ile Phe			
195	200	205	
Gln Gly Ser Ile Arg Tyr Glu Ala Leu Lys Lys Val Tyr Asp Asn Arg			
210	215	220	
Val Ser Val Ala Ala Arg Met Ala Gln Lys Met Ser Phe Gly Phe Tyr			
225	230	235	240
Lys Tyr Ser Asn Met Glu Phe Val Arg Met Lys Gly Pro Gln Gly Lys			
245	250	255	
Gly His Ala Glu Met Ala Val Ser Arg Val Ser Thr Gly Asp Thr Ser			
260	265	270	
Pro Cys Gly Thr Glu Glu Asp Ser Ser Pro Ala Ser Pro Met His Glu			
275	280	285	
Arg Val Thr Ser Phe Ser Thr Pro Pro Thr Pro Glu Arg Asn Asn Arg			
290	295	300	
Pro Ala Phe Phe Ser Pro Ser Leu Lys Arg Lys Val Pro Arg Asn Arg			
305	310	315	320
Ile Ala Glu Met Lys Lys Ser His Ser Ala Asn Asp Ser Glu Glu Phe			
325	330	335	
Phe Arg Glu Asp Asp Gly Gly Ala Asp Leu His Asn Ala Thr Asn Leu			
340	345	350	
Arg Ser Arg Ser Leu Ser Gly Thr Gly Arg Ser Leu Val Gly Ser Trp			
355	360	365	
Leu Lys Leu Asn Arg Ala Asp Gly Asn Phe Leu Leu Tyr Ala His Leu			
370	375	380	
Thr Tyr Val Thr Leu Pro Leu His Arg Ile Leu Thr Asp Ile Leu Glu			
385	390	395	400
Val Arg Gln Lys Pro Ile Leu Met Thr			
405			

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2412

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Met Trp Glu Leu Asp Lys Ala Ser Tyr Glu Ile Lys Lys Val Trp Tyr
  1             5             10            15
Gly Arg Thr Ile Ile Arg Ser Ala Tyr Lys Leu Phe Tyr Glu Ala Ala
      20             25            30
Gln Glu Leu Leu Asp Gly Asn Leu Ser Val Val Asp Asp Ile Pro Glu
      35             40            45
Phe Lys Asp Leu Asn Glu Lys Ser Arg Gln Ala Lys Leu Glu Glu Leu
      50             55            60
Val Trp Ala Ile Gly Lys Leu Thr Asp Ile Ala Arg His Val Arg Ala
      65             70            75            80
Lys Arg Asp Gly Cys Gly Ala Leu Glu Leu Glu Gly Val Glu Val Cys
      85             90            95
Val Gln Leu Asp Asp Lys Lys Asn Ile His Asp Leu Ile Pro Lys Gln
      100            105            110
Pro Leu Glu Val His Glu Thr Val Ala Glu Cys Met Ile Leu Ala Asn
      115            120            125
His Trp Val Ala Lys Lys Ile Trp Glu Ser Phe Pro His Gln Ala Leu
      130            135            140
Leu Arg Gln His Pro Pro Pro His Gln Glu Phe Phe Ser Glu Leu Arg
      145            150            155            160
Glu Cys Ala Lys Ala Lys Gly Phe Phe Ile Asp Thr Arg Tyr Ser Ser
      165            170            175
Phe Glu Gly Ala Glu Glu Trp Ser Gly Met Leu Tyr Ile
      180            185

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<210> 2413

<211> 178

<212> PRT

<213> Homo sapiens

<400> 2413

Met Thr Lys Arg Gly Gln Gly Ile Ala Trp Ala Val Ala Ser Glu Gly
 1 5 10 15
 Ala Ser Pro Lys Pro Trp Trp Leu Ser Tyr Gly Val Val Pro Val Gly
 20 25 30
 Val Gln Lys Thr Arg Val Glu Leu Trp Glu Pro Leu Pro Gln Phe Gln
 35 40 45
 Arg Met Tyr Gly Asn Thr Trp Met Ser Arg Gln Lys Ser Ala Ala Trp
 50 55 60
 Glu Glu Pro Thr Cys Arg Thr Ser Thr Met Ala Arg His Arg Gly Asn
 65 70 75 80
 Val Gly Leu Glu Ser Pro His Arg Val Pro Thr Gly Ala Leu Pro Ser
 85 90 95
 Gly Ala Val Lys Arg Gly Pro Leu Ser Ser Arg Pro Leu Lys Cys Arg
 100 105 110
 Ser Thr Asp Ser Leu His Cys Ala Pro Gly Asn Ala Gly Thr Gln Gly
 115 120 125
 Gln Pro Met Lys Ala Ala Ala Gly Ala Ala Pro Cys Arg Ala Thr Gly
 130 135 140
 Val Glu Leu Pro Asn Ser Leu Lys Asp His Pro Phe Leu Val Ser Ser
 145 150 155 160
 Cys Leu Gly Cys Glu Thr Trp Ser Gln Gly Arg Ser Phe Gln Ser Phe
 165 170 175
 Asn Ile

<210> 2414

<211> 443

<212> PRT

<213> Homo sapiens

<400> 2414

Met Val Asp Thr Val Leu Tyr Asp Asn Thr Gln Leu Gln Leu Lys Ala
 1 5 10 15

Glu Ser Pro Trp Glu Ala Leu Asp Trp Gly Gln Lys Leu Trp Glu Val
 20 25 30
 Val His Ala Ala Val Pro Gly Tyr Met Gly Arg Gln Asn Glu Leu Thr
 35 40 45
 Ile Ser Pro Gly Leu Gly His His Asp Asp Tyr Thr Gln Asn His Ser
 50 55 60
 Phe Gln Lys Lys Thr Ser Gly Leu Leu Pro Pro Ser Pro Val Leu Asp
 65 70 75 80
 Ser Ser Lys Gln Tyr Gln Asn Ile Leu Lys Ser Gly Thr Leu Tyr Arg
 85 90 95
 Leu Thr Val Gln Asn Asn Trp Lys Ala Phe Thr Phe Val Leu Ser Arg
 100 105 110
 Ala Tyr Leu Met Ala Phe Gln Pro Gly Lys Leu Asp Glu Asp Pro Leu
 115 120 125
 Leu Ser Tyr Asn Val Asp Val Cys Leu Ala Val Gln Met Asp Asn Leu
 130 135 140
 Asp Gly Cys Asp Ser Cys Phe Gln Val Ile Phe Pro Gln Asp Val Leu
 145 150 155 160
 Arg Leu Arg Ala Glu Thr Arg Gln Arg Ala Gln Glu Trp Met Glu Ala
 165 170 175
 Leu Lys Ile Ala Ala Asn Val Ala Arg Ser Ser Glu Gln Asn Leu Gln
 180 185 190
 Val Thr Leu Arg Asn Lys Pro Lys Asp Gln Met Gly Gly His Glu Leu
 195 200 205
 Arg Lys Asn Lys Arg Gln Ser Val Thr Thr Ser Phe Leu Ser Ile Leu
 210 215 220
 Thr Thr Leu Ser Leu Glu Arg Gly Leu Thr Ala Gln Ser Phe Lys Cys
 225 230 235 240
 Ala Gly Cys Gln Arg Ser Ile Gly Leu Ser Asn Gly Lys Ala Lys Val
 245 250 255
 Cys Asn Tyr Ser Gly Trp Tyr Tyr Cys Ser Ser Cys His Val Asp Asp
 260 265 270
 Ser Phe Leu Ile Pro Ala Arg Ile Val His Asn Trp Asp Thr Ser Lys
 275 280 285
 Tyr Lys Val Ser Lys Gln Ala Lys Glu Phe Leu Glu Tyr Val Tyr Glu

290	295	300	
Glu Pro Leu Ile Asp Ile Gln Gln Glu Asn Ala Met Leu Tyr His His			
305	310	315	320
Ala Glu Pro Leu Ala Ala Val Leu Arg Leu Arg Gln Arg Leu Lys Ser			
	325	330	335
Leu Arg Ala Tyr Leu Phe Ser Cys Arg Ala Ala Val Ala Glu Asp Leu			
	340	345	350
Arg Arg Arg Ile Phe Pro Arg Glu Tyr Leu Leu Gln Gln Ile His Leu			
	355	360	365
Tyr Ser Leu Ala Asp Leu Gln Gln Val Ile Glu Gly Lys Leu Ala Pro			
	370	375	380
Phe Leu Gly Lys Val Ile Lys Phe Ala Thr Ser His Val Tyr Ser Cys			
385	390	395	400
Ser Leu Cys Ser Gln Lys Gly Phe Ile Cys Glu Ile Cys Asn Asn Gly			
	405	410	415
Glu Ile Leu Tyr Pro Phe Glu Asp Ile Ser Thr Ser Arg Phe Gly Asp			
	420	425	430
Pro Tyr Ala Asp Leu Leu Gln Gly Tyr Val Ala			
	435	440	

<210> 2415

<211> 485

<212> PRT

<213> Homo sapiens

<400> 2415

Met Tyr Thr Ser His Glu Asp Ile Gly Tyr Asp Phe Glu Asp Gly Pro			
1	5	10	15
Lys Asp Lys Lys Thr Leu Lys Pro His Pro Asn Ile Asp Gly Gly Trp			
	20	25	30
Ala Trp Met Met Val Leu Ser Ser Phe Phe Val His Ile Leu Ile Met			
	35	40	45
Gly Ser Gln Met Ala Leu Gly Val Leu Asn Val Glu Trp Leu Glu Glu			
	50	55	60
Phe His Gln Ser Arg Gly Leu Thr Ala Trp Val Ser Ser Leu Ser Met			

65	70	75	80
Gly Ile Thr Leu Ile Val Gly Pro Phe Ile Gly Leu Phe Ile Asn Thr			
	85	90	95
Cys Gly Cys Arg Gln Thr Ala Ile Ile Gly Gly Leu Val Asn Ser Leu			
	100	105	110
Gly Trp Val Leu Ser Ala Tyr Ala Ala Asn Val His Tyr Leu Phe Ile			
	115	120	125
Thr Phe Gly Val Ala Ala Gly Leu Gly Ser Gly Met Ala Tyr Leu Pro			
	130	135	140
Ala Val Val Met Val Gly Arg Tyr Phe Gln Lys Arg Arg Ala Leu Ala			
145	150	155	160
Gln Gly Leu Ser Thr Thr Gly Thr Gly Phe Gly Thr Phe Leu Met Thr			
	165	170	175
Val Leu Leu Lys Tyr Leu Cys Ala Glu Tyr Gly Trp Arg Asn Ala Met			
	180	185	190
Leu Ile Gln Gly Ala Val Ser Leu Asn Leu Cys Val Cys Gly Ala Leu			
	195	200	205
Met Arg Pro Leu Ser Pro Gly Lys Asn Pro Asn Asp Pro Gly Glu Lys			
	210	215	220
Asp Val Arg Gly Leu Pro Ala His Ser Thr Glu Ser Val Lys Ser Thr			
225	230	235	240
Gly Gln Gln Gly Arg Thr Glu Glu Lys Asp Gly Gly Leu Gly Asn Glu			
	245	250	255
Glu Thr Leu Cys Asp Leu Gln Ala Gln Glu Cys Pro Asp Gln Ala Gly			
	260	265	270
His Arg Lys Asn Met Cys Ala Leu Arg Ile Leu Lys Thr Val Ser Trp			
	275	280	285
Leu Thr Met Arg Val Arg Lys Gly Phe Glu Asp Trp Tyr Ser Gly Tyr			
	290	295	300
Phe Gly Thr Ala Ser Leu Phe Thr Asn Arg Met Phe Val Ala Phe Ile			
305	310	315	320
Phe Trp Ala Leu Phe Ala Tyr Ser Ser Phe Val Ile Pro Phe Ile His			
	325	330	335
Leu Pro Glu Ile Val Asn Leu Tyr Asn Leu Ser Glu Gln Asn Asp Val			
	340	345	350
Phe Pro Leu Thr Ser Ile Ile Ala Ile Val His Ile Phe Gly Lys Val			

355 360 365
 Ile Leu Gly Val Ile Ala Asp Leu Pro Cys Ile Ser Val Trp Asn Val
 370 375 380
 Phe Leu Leu Ala Asn Phe Thr Leu Val Leu Ser Ile Phe Ile Leu Pro
 385 390 395 400
 Leu Met His Thr Tyr Ala Gly Leu Ala Val Ile Cys Ala Leu Ile Gly
 405 410 415
 Phe Ser Ser Gly Tyr Phe Ser Leu Met Pro Val Val Thr Glu Asp Leu
 420 425 430
 Val Gly Ile Glu His Leu Ala Asn Ala Tyr Gly Ile Ile Ile Cys Ala
 435 440 445
 Asn Gly Ile Ser Ala Leu Leu Gly Pro Pro Phe Ala Gly Lys Leu Ser
 450 455 460
 Glu Val Leu Arg Ala Gln Ser Ala Cys Thr Tyr Gly Ala Leu Cys Tyr
 465 470 475 480
 Lys Val Pro Asp Lys
 485

<210> 2416

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2416

Met Lys Ser Arg Ile Pro Val Val Leu Leu Ala Cys Gly Ser Phe Asn
 1 5 10 15
 Pro Ile Thr Asn Met His Leu Arg Met Phe Glu Val Ala Arg Asp His
 20 25 30
 Leu His Gln Thr Ala Val Pro Glu Leu Lys Leu Leu Cys Gly Ala Asp
 35 40 45
 Val Leu Lys Thr Phe Gln Thr Pro Asn Leu Trp Lys Asp Ala His Ile
 50 55 60
 Gln Glu Ile Val Glu Lys Phe Gly Leu Val Cys Val Gly Arg Val Gly
 65 70 75 80
 His Asp Pro Lys Gly Tyr Ile Ala Glu Ser Pro Ile Leu Arg Met His

85 90 95
 Gln His Asn Ile His Leu Ala Lys Glu Pro Val Gln Asn Glu Ile Ser
 100 105 110
 Ala Thr Tyr Ile Arg Arg Ala Leu Gly Gln Gly Gln Ser Val Lys Tyr
 115 120 125
 Leu Ile Pro Asp Ala Val Ile Thr Tyr Ile Lys Asp His Gly Leu Tyr
 130 135 140
 Thr Lys Gly Ser Thr Trp Lys Gly Lys Ser Thr Gln Ser Thr Glu Gly
 145 150 155 160
 Lys Thr Ser

<210> 2417

<211> 308

<212> PRT

<213> Homo sapiens

<400> 2417

Met Gly Asn Tyr Gln Glu Tyr Leu Lys Thr Leu Ala Ser Pro Leu Arg
 1 5 10 15
 Glu Ile Asp Pro Asp Gln Pro Lys Arg Leu His Thr Phe Gly Asn Pro
 20 25 30
 Phe Lys Gln Asp Lys Lys Gly Met Met Ile Asp Glu Ala Asp Glu Phe
 35 40 45
 Val Ala Gly Pro Gln Asn Lys Val Lys Arg Pro Gly Glu Pro Asn Ser
 50 55 60
 Pro Met Ser Ser Lys Arg Arg Arg Ser Met Ser Leu Leu Leu Arg Lys
 65 70 75 80
 Pro Gln Thr Pro Pro Thr Val Thr Asn His Val Gly Gly Lys Gly Pro
 85 90 95
 Pro Ser Ala Ser Trp Phe Pro Ser Tyr Pro Asn Leu Ile Lys Pro Thr
 100 105 110
 Leu Val His Thr Asp Ala Thr Ile Ile His Asp Gly His Glu Glu Lys
 115 120 125
 Met Glu Asn Gly Gln Ile Thr Pro Asp Gly Phe Leu Ser Lys Ser Ala

130	135	140	
Pro Ser Glu Leu Ile Asn Met Thr Gly Asp Leu Met Pro Pro Asn Gln			
145	150	155	160
Val Asp Ser Leu Ser Asp Asp Phe Thr Ser Leu Ser Lys Asp Gly Leu			
	165	170	175
Ile Gln Lys Pro Gly Ser Asn Ala Phe Val Gly Gly Ala Lys Asn Cys			
	180	185	190
Ser Leu Ser Val Asp Asp Gln Lys Asp Pro Val Ala Ser Thr Leu Gly			
	195	200	205
Ala Met Pro Asn Thr Leu Gln Ile Thr Pro Ala Met Ala Gln Gly Ile			
	210	215	220
Asn Ala Asp Ile Lys His Gln Leu Met Lys Glu Val Arg Lys Phe Gly			
225	230	235	240
Arg Lys Tyr Glu Arg Ile Phe Ile Leu Leu Glu Glu Val Gln Gly Pro			
	245	250	255
Leu Glu Met Lys Lys Gln Phe Val Glu Phe Thr Ile Lys Glu Ala Ala			
	260	265	270
Arg Phe Lys Arg Arg Val Leu Ile Gln Tyr Leu Glu Lys Val Leu Glu			
	275	280	285
Lys Ile Asn Ser His His Leu His Asn Asn Ile Ser His Ile Asn Ser			
	290	295	300
Arg Ser Ser Cys			
305			

<210> 2418

<211> 529

<212> PRT

<213> Homo sapiens

<400> 2418

Met Glu Leu Met Ile Gln Glu Lys Ser Phe Gly Asn Ser Leu Leu Leu			
1	5	10	15
Asn Ser Ala Met Gln Pro Asp Leu Thr Val Ser Arg Thr Tyr Ser Gly			
	20	25	30
Pro Ile Cys Leu Gln Asp Pro Leu Asp Lys Glu Leu Met Thr Glu Ser			

35	40	45
Ser Leu Phe Asn Pro Leu Ser Asp Ile Lys Val Lys Val Gln Ser Ser		
50	55	60
Phe Met Val Ser Leu Gly Val Ser Glu Arg Ala Glu Tyr His Gly Lys		
65	70	75
Asn His Ser Arg Thr Phe Pro His Gly Asn Asn His Ser Phe Ser Thr		
85	90	95
Met His Pro Arg Asn Lys Met Pro Tyr Ile Gln Asn Leu Ser Ser Leu		
100	105	110
Pro Thr Arg Thr Glu Leu Arg Thr Thr Gly Val Phe Gly His Leu Gly		
115	120	125
Gly Arg Leu Val Met Pro Asn Lys Gly Val Ser Leu Leu Ile Pro His		
130	135	140
Gly Ala Ile Pro Glu Glu Asn Ser Trp Glu Ile Tyr Met Ser Ile Asn		
145	150	155
Gln Gly Glu Pro Ser Leu Gln Ser Asp Gly Ser Glu Val Leu Leu Ser		
165	170	175
Pro Glu Val Thr Cys Gly Pro Pro Asp Met Ile Val Thr Thr Pro Phe		
180	185	190
Ala Leu Thr Ile Pro His Cys Ala Asp Val Ser Ser Glu His Trp Asn		
195	200	205
Ile His Leu Lys Lys Arg Thr Gln Gln Gly Lys Trp Glu Glu Val Met		
210	215	220
Ser Val Glu Asp Glu Ser Thr Ser Cys Tyr Cys Leu Leu Asp Pro Phe		
225	230	235
Ala Cys His Val Leu Leu Asp Ser Phe Gly Thr Tyr Ala Leu Thr Gly		
245	250	255
Glu Pro Ile Thr Asp Cys Ala Val Lys Gln Leu Lys Val Ala Val Phe		
260	265	270
Gly Cys Met Ser Cys Asn Ser Leu Asp Tyr Asn Leu Arg Val Tyr Cys		
275	280	285
Val Asp Asn Thr Pro Cys Ala Phe Gln Glu Val Val Ser Asp Glu Arg		
290	295	300
His Gln Gly Gly Gln Leu Leu Glu Glu Pro Lys Leu Leu His Phe Lys		
305	310	315
Gly Asn Thr Phe Ser Leu Gln Ile Ser Val Leu Asp Ile Pro Pro Phe		

	325		330		335
Leu Trp Arg Ile Lys Pro Phe Thr Ala Cys Gln Glu Val Pro Phe Ser					
	340		345		350
Arg Val Trp Cys Ser Asn Arg Gln Pro Leu His Cys Ala Phe Ser Leu					
	355		360		365
Glu Arg Tyr Thr Pro Thr Thr Thr Gln Leu Ser Cys Lys Ile Cys Ile					
	370		375		380
Arg Gln Leu Lys Gly His Glu Gln Ile Leu Gln Val Gln Thr Ser Ile					
385		390		395	400
Leu Glu Ser Glu Arg Glu Thr Ile Thr Phe Phe Ala Gln Glu Asp Ser					
	405		410		415
Thr Phe Pro Ala Gln Thr Gly Pro Lys Ala Phe Lys Ile Pro Tyr Ser					
	420		425		430
Ile Arg Gln Arg Ile Cys Ala Thr Phe Asp Thr Pro Asn Ala Lys Gly					
	435		440		445
Lys Asp Trp Gln Met Leu Ala Gln Lys Asn Ser Ile Asn Arg Asn Leu					
	450		455		460
Ser Tyr Phe Ala Thr Gln Ser Ser Pro Ser Ala Val Ile Leu Asn Leu					
465		470		475	480
Trp Glu Ala Arg His Gln His Asp Gly Asp Leu Asp Ser Leu Ala Cys					
	485		490		495
Ala Leu Glu Glu Ile Gly Arg Thr His Thr Lys Leu Ser Asn Ile Ser					
	500		505		510
Glu Ser Gln Leu Asp Glu Ala Asp Phe Asn Tyr Ser Arg Gln Asn Gly					
	515		520		525
Leu					

<210> 2419

<211> 241

<212> PRT

<213> Homo sapiens

<400> 2419

Met Ala Gln Glu Lys Met Glu Leu Asp Leu Glu Pro Asp Thr Ser Tyr

1	5	10	15
Gly Gly Thr Leu Arg Arg Ser Ser Ser Ala Pro Leu Ile His Gly Leu			
20	25	30	
Ser Asp Leu Ser Gln Val Phe Gln Pro Tyr Thr Leu Arg Thr Arg Arg			
35	40	45	
Asn Ser Thr Thr Ile Met Ser Arg His Ser Leu Leu Leu Ser Ser Ser			
50	55	60	
Pro Asn Arg Ile Pro Ser Ser Arg Leu His Gln Ile Lys Arg Glu Glu			
65	70	75	80
Gly Leu Asp Met Val Asn Arg Glu Thr Ala His Glu Arg Glu Met Gln			
85	90	95	
Thr Ala Met Gln Ile Ser Gln Ser Trp Asp Glu Ser Leu Ser Leu Ser			
100	105	110	
Asp Ser Asp Phe Asp Lys Pro Glu Lys Leu Tyr Ser Pro Lys Arg Ile			
115	120	125	
Asp Phe Thr Pro Val Ser Pro Ala Pro Ser Pro Thr Arg Gly Phe Gly			
130	135	140	
Lys Met Phe Val Ser Ser Ser Gly Leu Pro Pro Ser Pro Val Pro Ser			
145	150	155	160
Pro Arg Arg Phe Ser Arg Arg Ser Gln Ser Pro Val Lys Cys Ile Arg			
165	170	175	
Pro Ser Val Leu Gly Pro Leu Lys Arg Lys Gly Glu Met Glu Thr Glu			
180	185	190	
Ser Gln Pro Lys Arg Leu Phe Gln Gly Thr Thr Asn Met Leu Ser Pro			
195	200	205	
Asp Ala Ala Gln Leu Ser Asp Leu Ser Ser Trp Trp Cys Tyr Gln Gly			
210	215	220	
Glu Glu Ile Pro Ala Leu Thr Arg Cys Val Glu His Leu Gln Met Asn			
225	230	235	240
Glu			

<210> 2420

<211> 622

<212> PRT

<213> Homo sapiens

<400> 2420

Met Cys Gly Leu Gln Phe Ser Leu Pro Cys Leu Arg Leu Phe Leu Val
 1 5 10 15
 Val Thr Cys Tyr Leu Leu Leu Leu Leu His Lys Glu Ile Leu Gly Cys
 20 25 30
 Ser Ser Val Cys Gln Leu Cys Thr Gly Arg Gln Ile Asn Cys Arg Asn
 35 40 45
 Leu Gly Leu Ser Ser Ile Pro Lys Asn Phe Pro Glu Ser Thr Val Phe
 50 55 60
 Leu Tyr Leu Thr Gly Asn Asn Ile Ser Tyr Ile Asn Glu Ser Glu Leu
 65 70 75 80
 Thr Gly Leu His Ser Leu Val Ala Leu Tyr Leu Asp Asn Ser Asn Ile
 85 90 95
 Leu Tyr Val Tyr Pro Lys Ala Phe Val Gln Leu Arg His Leu Tyr Phe
 100 105 110
 Leu Phe Leu Asn Asn Asn Phe Ile Lys Arg Leu Asp Pro Gly Ile Phe
 115 120 125
 Lys Gly Leu Leu Asn Leu Arg Asn Leu Tyr Leu Gln Tyr Asn Gln Val
 130 135 140
 Ser Phe Val Pro Arg Gly Val Phe Asn Asp Leu Val Ser Val Gln Tyr
 145 150 155 160
 Leu Asn Leu Gln Arg Asn Arg Leu Thr Val Leu Gly Ser Gly Thr Phe
 165 170 175
 Val Gly Met Val Ala Leu Arg Ile Leu Asp Leu Ser Asn Asn Asn Ile
 180 185 190
 Leu Arg Ile Ser Glu Ser Gly Phe Gln His Leu Glu Asn Leu Ala Cys
 195 200 205
 Leu Tyr Leu Gly Ser Asn Asn Leu Thr Lys Val Pro Ser Asn Ala Phe
 210 215 220
 Glu Val Leu Lys Ser Leu Arg Arg Leu Ser Leu Ser His Asn Pro Ile
 225 230 235 240
 Glu Ala Ile Gln Pro Phe Ala Phe Lys Gly Leu Ala Asn Leu Glu Tyr
 245 250 255
 Leu Leu Leu Lys Asn Ser Arg Ile Arg Asn Val Thr Arg Asp Gly Phe

260	265	270
Ser Gly Ile Asn Asn Leu Lys His Leu Ile Leu Ser His Asn Asp Leu		
275	280	285
Glu Asn Leu Asn Ser Asp Thr Phe Ser Leu Leu Lys Asn Leu Ile Tyr		
290	295	300
Leu Lys Leu Asp Arg Asn Arg Ile Ile Ser Ile Asp Asn Asp Thr Phe		
305	310	315
Glu Asn Met Gly Ala Ser Leu Lys Ile Leu Asn Leu Ser Phe Asn Asn		
325	330	335
Leu Thr Ala Leu His Pro Arg Val Leu Lys Pro Leu Ser Ser Leu Ile		
340	345	350
His Leu Gln Ala Asn Ser Asn Pro Trp Glu Cys Asn Cys Lys Leu Leu		
355	360	365
Gly Leu Arg Asp Trp Leu Ala Ser Ser Ala Ile Thr Leu Asn Ile Tyr		
370	375	380
Cys Gln Asn Pro Pro Ser Met Arg Gly Arg Ala Leu Arg Tyr Ile Asn		
385	390	395
Ile Thr Asn Cys Val Thr Ser Ser Ile Asn Val Ser Arg Ala Trp Ala		
405	410	415
Val Val Lys Ser Pro His Ile His His Lys Thr Thr Ala Leu Met Met		
420	425	430
Ala Trp His Lys Val Thr Thr Asn Gly Ser Pro Leu Glu Asn Thr Glu		
435	440	445
Thr Glu Asn Ile Thr Phe Trp Glu Arg Ile Pro Thr Ser Pro Ala Gly		
450	455	460
Arg Phe Phe Gln Glu Asn Ala Phe Gly Asn Pro Leu Glu Thr Thr Ala		
465	470	475
Val Leu Pro Val Gln Ile Gln Leu Thr Thr Ser Val Thr Leu Asn Leu		
485	490	495
Glu Lys Asn Ser Ala Leu Pro Asn Asp Ala Ala Ser Met Ser Gly Lys		
500	505	510
Thr Ser Leu Ile Cys Thr Gln Glu Val Glu Lys Leu Asn Glu Ala Phe		
515	520	525
Asp Ile Leu Leu Ala Phe Phe Ile Leu Ala Cys Val Leu Ile Ile Phe		
530	535	540
Leu Ile Tyr Lys Val Val Gln Phe Lys Gln Lys Leu Lys Ala Ser Glu		

545 550 555 560
 Asn Ser Arg Glu Asn Arg Leu Glu Tyr Tyr Ser Phe Tyr Gln Ser Ala
 565 570 575
 Arg Tyr Asn Val Thr Ala Ser Ile Cys Asn Thr Ser Pro Asn Ser Leu
 580 585 590
 Glu Ser Pro Gly Leu Glu Gln Ile Arg Leu His Lys Gln Ile Val Pro
 595 600 605
 Glu Asn Glu Ala Gln Ala Ile Leu Phe Glu His Ser Ala Leu
 610 615 620

<210> 2421

<211> 407

<212> PRT

<213> Homo sapiens

<400> 2421

Met Thr Ser Gln Arg Ser Pro Leu Ala Pro Leu Leu Leu Leu Ser Leu
 1 5 10 15
 His Gly Val Ala Ala Ser Leu Glu Val Ser Glu Ser Pro Gly Ser Ile
 20 25 30
 Gln Val Ala Arg Gly Gln Thr Ala Val Leu Pro Cys Thr Phe Thr Thr
 35 40 45
 Ser Ala Ala Leu Ile Asn Leu Asn Val Ile Trp Met Val Thr Pro Leu
 50 55 60
 Ser Asn Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly Gly Gln
 65 70 75 80
 Met Phe Asp Gly Ala Pro Arg Phe His Gly Arg Val Gly Phe Thr Gly
 85 90 95
 Thr Met Pro Ala Thr Asn Val Ser Ile Tyr Ile Asn Asn Thr Gln Leu
 100 105 110
 Ser Asp Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro Asp Ile
 115 120 125
 Gly Gly Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val Pro Pro
 130 135 140
 Ser Ala Pro His Cys Gln Ile Gln Gly Ser Gln Asp Ile Gly Ser Asp

145	150	155	160
Val Ile Leu Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro Thr Tyr			
	165	170	175
Leu Trp Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr Ala Thr			
	180	185	190
Gln Asp Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser Ala Leu			
	195	200	205
Ser Ser Ala Gln Pro Arg Asn Ile Gly Leu Ile Ala Gly Ala Ile Gly			
	210	215	220
Thr Gly Ala Val Ile Ile Ile Phe Cys Ile Ala Leu Ile Leu Gly Ala			
225	230	235	240
Phe Phe Tyr Trp Arg Ser Lys Asn Lys Glu Glu Glu Glu Glu Glu Ile			
	245	250	255
Pro Asn Glu Ile Arg Glu Asp Asp Leu Pro Pro Lys Cys Ser Ser Ala			
	260	265	270
Lys Ala Phe His Thr Glu Ile Ser Ser Ser Asp Asn Asn Thr Leu Thr			
	275	280	285
Ser Ser Asn Ala Tyr Asn Ser Arg Tyr Trp Ser Asn Asn Pro Lys Val			
	290	295	300
His Arg Asn Thr Glu Ser Val Ser His Phe Ser Asp Leu Gly Gln Ser			
305	310	315	320
Phe Ser Phe His Ser Gly Asn Ala Asn Ile Pro Ser Ile Tyr Ala Asn			
	325	330	335
Gly Thr His Leu Val Pro Gly Gln His Lys Thr Leu Val Val Thr Ala			
	340	345	350
Asn Arg Gly Ser Ser Pro Gln Val Met Ser Arg Ser Asn Gly Ser Val			
	355	360	365
Ser Arg Lys Pro Arg Pro Pro His Thr His Ser Tyr Thr Ile Ser His			
	370	375	380
Ala Thr Leu Glu Arg Ile Gly Ala Val Pro Val Met Val Pro Ala Gln			
385	390	395	400
Ser Arg Ala Gly Ser Leu Val			
	405		

<211> 209

<212> PRT

<213> Homo sapiens

<400> 2422

Met Ala Ser Arg Gly Leu Ser Leu Phe Pro Glu Ser Cys Pro Asp Phe
 1 5 10 15
 Cys Cys Gly Thr Cys Asp Asp Gln Tyr Cys Cys Ser Asp Val Leu Lys
 20 25 30
 Lys Phe Val Trp Ser Glu Glu Arg Cys Ala Val Pro Glu Ala Ser Val
 35 40 45
 Pro Ala Ser Val Glu Pro Val Glu Gln Leu Gly Ser Ala Leu Arg Phe
 50 55 60
 Arg Pro Gly Tyr Asn Asp Pro Met Ser Gly Phe Gly Ala Thr Leu Ala
 65 70 75 80
 Val Gly Leu Thr Ile Phe Val Leu Ser Val Val Thr Ile Ile Ile Cys
 85 90 95
 Phe Thr Cys Ser Cys Cys Cys Leu Tyr Lys Thr Cys Arg Arg Pro Arg
 100 105 110
 Pro Val Val Thr Thr Thr Thr Ser Thr Thr Val Val His Ala Pro Tyr
 115 120 125
 Pro Gln Pro Pro Ser Val Pro Pro Ser Tyr Pro Gly Pro Ser Tyr Gln
 130 135 140
 Gly Tyr His Thr Met Pro Pro Gln Pro Gly Met Pro Ala Ala Pro Tyr
 145 150 155 160
 Pro Met Gln Tyr Pro Pro Pro Tyr Pro Ala Gln Pro Met Gly Pro Pro
 165 170 175
 Ala Tyr His Glu Thr Leu Ala Gly Gly Ala Ala Ala Pro Tyr Pro Ala
 180 185 190
 Ser Gln Pro Pro Tyr Asn Pro Ala Tyr Met Asp Ala Pro Lys Ala Ala
 195 200 205
 Leu

<210> 2423

<211> 590

<212> PRT

<213> Homo sapiens

<400> 2423

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Met Gly Phe His Leu Ile Thr Gln Leu Lys Gly Met Ser Val Val Leu
  1             5             10             15
Val Leu Leu Pro Thr Leu Leu Leu Val Met Leu Thr Gly Ala Gln Arg
      20             25             30
Ala Cys Pro Lys Asn Cys Arg Cys Asp Gly Lys Ile Val Tyr Cys Glu
      35             40             45
Ser His Ala Phe Ala Asp Ile Pro Glu Asn Ile Ser Gly Gly Ser Gln
      50             55             60
Gly Leu Ser Leu Arg Phe Asn Ser Ile Gln Lys Leu Lys Ser Asn Gln
      65             70             75             80
Phe Ala Gly Leu Asn Gln Leu Ile Trp Leu Tyr Leu Asp His Asn Tyr
      85             90             95
Ile Ser Ser Val Asp Glu Asp Ala Phe Gln Gly Ile Arg Arg Leu Lys
      100            105            110
Glu Leu Ile Leu Ser Ser Asn Lys Ile Thr Tyr Leu His Asn Lys Thr
      115            120            125
Phe His Pro Val Pro Asn Leu Arg Asn Leu Asp Leu Ser Tyr Asn Lys
      130            135            140
Leu Gln Thr Leu Gln Ser Glu Gln Phe Lys Gly Leu Arg Lys Leu Ile
      145            150            155            160
Ile Leu His Leu Arg Ser Asn Ser Leu Lys Thr Val Pro Ile Arg Val
      165            170            175
Phe Gln Asp Cys Arg Asn Leu Asp Phe Leu Asp Leu Gly Tyr Asn Arg
      180            185            190
Leu Arg Ser Leu Ser Arg Asn Ala Phe Ala Gly Leu Leu Lys Leu Lys
      195            200            205
Glu Leu His Leu Glu His Asn Gln Phe Ser Lys Ile Asn Phe Ala His
      210            215            220
Phe Pro Arg Leu Phe Asn Leu Arg Ser Ile Tyr Leu Gln Trp Asn Arg
      225            230            235            240
Ile Arg Ser Ile Ser Gln Gly Leu Thr Trp Thr Trp Ser Ser Leu His

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245	250	255
Asn Leu Asp Leu Ser Gly Asn Asp Ile Gln Gly Ile Glu Pro Gly Thr		
260	265	270
Phe Lys Cys Leu Pro Asn Leu Gln Lys Leu Asn Leu Asp Ser Asn Lys		
275	280	285
Leu Thr Asn Ile Ser Gln Glu Thr Val Asn Ala Trp Ile Ser Leu Ile		
290	295	300
Ser Ile Thr Leu Ser Gly Asn Met Trp Glu Cys Ser Arg Ser Ile Cys		
305	310	315
Pro Leu Phe Tyr Trp Leu Lys Asn Phe Lys Gly Asn Lys Glu Ser Thr		
325	330	335
Met Ile Cys Ala Gly Pro Lys His Ile Gln Gly Glu Lys Val Ser Asp		
340	345	350
Ala Val Glu Thr Tyr Asn Ile Cys Ser Glu Val Gln Val Val Asn Thr		
355	360	365
Glu Arg Ser His Leu Val Pro Gln Thr Pro Gln Lys Pro Leu Ile Ile		
370	375	380
Pro Arg Pro Thr Ile Phe Lys Pro Asp Val Thr Gln Ser Thr Phe Glu		
385	390	395
Thr Pro Ser Pro Ser Pro Gly Phe Gln Ile Pro Gly Ala Glu Gln Glu		
405	410	415
Tyr Glu His Val Ser Phe His Lys Ile Ile Ala Gly Ser Val Ala Leu		
420	425	430
Phe Leu Ser Val Ala Met Ile Leu Leu Val Ile Tyr Val Ser Trp Lys		
435	440	445
Arg Tyr Pro Ala Ser Met Lys Gln Leu Gln Gln His Ser Leu Met Lys		
450	455	460
Arg Arg Arg Lys Lys Ala Arg Glu Ser Glu Arg Gln Met Asn Ser Pro		
465	470	475
Leu Gln Glu Tyr Tyr Val Asp Tyr Lys Pro Thr Asn Ser Glu Thr Met		
485	490	495
Asp Ile Ser Val Asn Gly Ser Gly Pro Cys Thr Tyr Thr Ile Ser Gly		
500	505	510
Ser Arg Glu Cys Glu Met Pro His His Met Lys Pro Leu Pro Tyr Tyr		
515	520	525
Ser Tyr Gly Gln Pro Val Ile Gly Tyr Cys Gln Ala His Gln Pro Leu		

530 535 540
 His Val Thr Lys Gly Tyr Glu Thr Val Ser Pro Glu Gln Asp Glu Ser
 545 550 555 560
 Pro Gly Leu Glu Leu Gly Arg Asp His Ser Phe Ile Ala Thr Ile Ala
 565 570 575
 Arg Ser Ala Ala Pro Ala Ile Tyr Leu Glu Arg Ile Ala Asn
 580 585 590

<210> 2424

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2424

Met Ile Arg Ile Ile Asn Ala Phe Ser Leu Pro Thr Tyr Leu Ser Ser
 1 5 10 15
 His Asp Asn Leu Lys Ile Ser Leu Val Ala Phe Pro Leu Lys Pro Thr
 20 25 30
 Phe Pro Val Gly Leu Asn Ser Leu Phe Ser Leu Ile Trp Cys Phe Pro
 35 40 45
 Ser His Leu Phe Phe Lys Val Pro Phe Leu Gln Thr Leu Lys Ser Thr
 50 55 60
 Ser Leu Thr Lys Phe Leu Phe Ile Ile Lys His Phe Asp Ile Leu Ser
 65 70 75 80
 Leu Asn Phe Ala Phe Ala Glu Ser Leu Pro Phe Gly Val Leu Ser Met
 85 90 95
 Lys Tyr Ser Ala Asp Phe Tyr Leu Gly Phe Lys Trp Gly Ser Ile Lys
 100 105 110
 Asn Thr Ser His Phe Cys Asn Asn Gly Ile Thr Val Ser Ser Cys Met
 115 120 125
 Gln Ala Ile Lys Leu Phe Arg Val Trp Phe Tyr Thr Glu Asn Leu Ile
 130 135 140

<210> 2425

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2425

Met Lys Val Ser Glu Thr Tyr Thr Asp Thr Asn Ser Thr Ala Gly Gln

1 5 10 15

His Ala Gly Phe Ser Val Gln Arg Arg Tyr Ile Asp Gln Gln Ala Val

20 25 30

Arg Cys Gln Ile Arg Leu Leu Arg Glu Glu Thr Pro Leu Gln Gly Val

35 40 45

Trp Lys Glu His Val Trp Lys Gly Ala Gly His Met Glu Pro Arg Asn

50 55 60

Asn Cys Ser Pro Ser Val His Thr Ala Gln Arg Glu Arg Gly Glu Glu

65 70 75 80

Phe Gln Ala Arg Ala Thr Glu Ala Leu Glu Ala Val Leu Arg Arg Glu

85 90 95

Thr Ser Ser Arg

100

<210> 2426

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2426

Met Ala Glu Arg Gly Gln His Glu Ala Gln Ala Met Ala Ser Glu Gly

1 5 10 15

Glu Ser Leu Lys Pro Trp Gln Leu Pro Cys Asp Val Glu His Val Gly

20 25 30

Ala Gln Lys Ser Arg Asn Gly Val Trp Glu Pro Leu Ser Arg Phe Gln

35 40 45

Lys Met Tyr Gly Asn Ala Trp Met Pro Arg Gln Lys Phe Ala Ala Gly

50 55 60

Ala Gly Leu Ser Trp Arg Thr Ser Ala Arg Ala Val Gln Lys Gly Asn
65 70 75 80
Val Gly Leu Glu Pro Pro His Arg Val Pro Thr Gly Thr Pro Pro Ser
85 90 95
Gly Ala Val Arg Arg Gly Pro Leu Ser Ser Arg Pro Gln Asn Gly Arg
100 105 110
Ser Thr Tyr Ser Leu Tyr Gln Val Pro Gly Lys Ala Ala Asp Thr Gln
115 120 125
His Gln Pro Met Lys Ala Ala Arg Met Glu Ala Val Pro
130 135 140

<210> 2427

<211> 292

<212> PRT

<213> Homo sapiens

<400> 2427

Met Thr Glu Leu Leu Asn Arg Val Asp Lys Lys Ala Ala Pro Gln Thr
1 5 10 15
Glu Ser Gly Ser Ser Asn Ala Ser Cys Arg Asn Val Leu Lys Gly Ser
20 25 30
Ser Gln Gly Ser Cys Leu Ile Gly Ser Ser Ile Ser Thr Gln Gly Asn
35 40 45
His Lys Lys Asn Met Lys Ile Lys Ala Asp Met Glu Val Pro Lys Asp
50 55 60
Ser Leu Val Lys Glu Ala Asn Glu Asn Leu Gln Glu Asp Glu Asp Asp
65 70 75 80
Ala Val Ala Asp Ser Val Phe Gln Ser His Ile Ile Glu Ser Asn Cys
85 90 95
Gln Met Arg Thr Leu Asp Ser Gly Ile Gly Thr Phe Pro Leu Pro Asp
100 105 110
Ser Gly Asn Arg Ser Thr Gly Arg Tyr Leu Cys Gln Pro Asp Ser Pro
115 120 125
Glu Asp Ala Glu Pro Leu Leu Pro Leu Gln Ser Ala Leu Ser Ala Val

130	135	140	
Ser Ser Met Arg Ala Gln Thr Leu Glu Arg Glu Val Pro Ser Ser Thr			
145	150	155	160
Asp Gly Gln Arg Pro Ala Asp Ser Ala Ile Val His Ser Thr Ser Asp			
	165	170	175
Pro Ile Met Thr Ala Arg Gly Met Arg Pro Leu Gln Ser Arg Leu Pro			
	180	185	190
Lys Pro Ala Ser Ser Gly Lys Val Ser Ser Gln Lys Gln Asn Glu Ala			
	195	200	205
Glu Pro Arg Pro Gln Thr Cys Ser Ser Phe Gly Tyr Ala Glu Asp Pro			
210	215	220	
Met Ala Ser Gln Pro Leu Pro Asp Trp Gly Ser Glu Val Ala Ala Thr			
225	230	235	240
Gly Thr Gln Asp Lys Ala Pro Arg Met Cys Thr Tyr Ser Ala Ser Gly			
	245	250	255
Gly Ser Asn Ser Asp Ser Asp Leu Asp Tyr Gly Asp Asn Gly Phe Gly			
	260	265	270
Ala Gly Arg Gly Gln Leu Val Lys Ala Leu Lys Ser Ala Ala Pro Glu			
	275	280	285
Ile Glu Thr Thr			
290			

<210> 2428

<211> 599

<212> PRT

<213> Homo sapiens

<400> 2428

Met Asp Gly Thr Asp Cys Asp Leu Gly Lys Trp Cys Lys Ala Gly Glu			
1	5	10	15
Cys Thr Ser Arg Thr Ser Ala Pro Glu His Leu Ala Gly Glu Trp Ser			
	20	25	30
Leu Trp Ser Pro Cys Ser Arg Thr Cys Ser Ala Gly Ile Ser Ser Arg			
	35	40	45
Glu Arg Lys Cys Pro Gly Leu Asp Ser Glu Ala Arg Asp Cys Asn Gly			

50	55	60
Pro Arg Lys Gln Tyr Arg Ile Cys Glu Asn Pro Pro Cys Pro Ala Gly		
65	70	75
Leu Pro Gly Phe Arg Asp Trp Gln Cys Gln Ala Tyr Ser Val Arg Thr		
	85	90
Ser Ser Pro Lys His Ile Leu Gln Trp Gln Ala Val Leu Asp Glu Glu		
	100	105
Lys Pro Cys Ala Leu Phe Cys Ser Pro Val Gly Lys Glu Gln Pro Ile		
	115	120
Leu Leu Ser Glu Lys Val Met Asp Gly Thr Ser Cys Gly Tyr Gln Gly		
	130	135
Leu Asp Ile Cys Ala Asn Gly Arg Cys Gln Lys Val Gly Cys Asp Gly		
145	150	155
Leu Leu Gly Ser Leu Ala Arg Glu Asp His Cys Gly Val Cys Asn Gly		
	165	170
Asn Gly Lys Ser Cys Lys Ile Ile Lys Gly Asp Phe Asn His Thr Arg		
	180	185
Gly Ala Gly Tyr Val Glu Val Leu Val Ile Pro Ala Gly Ala Arg Arg		
	195	200
Ile Lys Val Val Glu Glu Lys Pro Ala His Ser Tyr Leu Ala Leu Arg		
	210	215
Asp Ala Gly Lys Gln Ser Ile Asn Ser Asp Trp Lys Ile Glu His Ser		
225	230	235
Gly Ala Phe Asn Leu Ala Gly Thr Thr Val His Tyr Val Arg Arg Gly		
	245	250
Leu Trp Glu Lys Ile Ser Ala Lys Gly Pro Thr Thr Ala Pro Leu His		
	260	265
Leu Leu Val Leu Leu Phe Gln Asp Gln Asn Tyr Gly Leu His Tyr Glu		
	275	280
Tyr Thr Ile Pro Ser Asp Pro Leu Pro Glu Asn Gln Ser Ser Lys Ala		
	290	295
Pro Glu Pro Leu Phe Met Trp Thr His Thr Ser Trp Glu Asp Cys Asp		
305	310	315
Ala Thr Cys Gly Gly Gly Glu Arg Lys Thr Thr Val Ser Cys Thr Lys		
	325	330
Ile Met Ser Lys Asn Ile Ser Ile Val Asp Asn Glu Lys Cys Lys Tyr		

340	345	350
Leu Thr Lys Pro Glu Pro Gln Ile Arg Lys Cys Asn Glu Gln Pro Cys		
355	360	365
Gln Thr Arg Trp Met Met Thr Glu Trp Thr Pro Cys Ser Arg Thr Cys		
370	375	380
Gly Lys Gly Met Gln Ser Arg Gln Val Ala Cys Thr Gln Gln Leu Ser		
385	390	395
Asn Gly Thr Leu Ile Arg Ala Arg Glu Arg Asp Cys Ile Gly Pro Lys		
405	410	415
Pro Ala Ser Ala Gln Arg Cys Glu Gly Gln Asp Cys Met Thr Val Trp		
420	425	430
Glu Ala Gly Val Trp Ser Glu Cys Ser Val Lys Cys Gly Lys Gly Ile		
435	440	445
Arg His Arg Thr Val Arg Cys Thr Asn Pro Arg Arg Lys Cys Val Leu		
450	455	460
Ser Thr Arg Pro Arg Glu Ala Glu Asp Cys Glu Asp Tyr Ser Lys Cys		
465	470	475
Tyr Val Trp Arg Met Gly Asp Trp Ser Lys Cys Ser Ile Thr Cys Gly		
485	490	495
Lys Gly Met Gln Ser Arg Val Ile Gln Cys Met His Lys Ile Thr Gly		
500	505	510
Arg His Gly Asn Gly Cys Phe Ser Ser Glu Lys Pro Ala Ala Tyr Arg		
515	520	525
Pro Cys His Leu Gln Pro Cys Asn Glu Lys Ile Asn Val Asn Thr Ile		
530	535	540
Thr Ser Pro Arg Leu Ala Ala Leu Thr Phe Lys Cys Leu Gly Asp Gln		
545	550	555
Trp Pro Val Tyr Cys Arg Val Ile Arg Glu Lys Asn Leu Cys Gln Asp		
565	570	575
Met Arg Trp Tyr Gln Arg Cys Cys Glu Thr Cys Arg Asp Phe Tyr Ala		
580	585	590
Gln Lys Leu Gln Gln Lys Ser		
595		

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2429

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Met Gln Arg Arg Thr Thr Met Arg Tyr His Leu Met Pro Val Arg Met
 1             5             10             15
Val Ile Ile Lys Lys Ser Lys Asn Asn Arg Cys Trp Arg Gly Cys Gly
      20             25             30
Glu Val Gly Thr Leu Leu His Cys Trp Trp Glu Cys Lys Leu Val Gln
      35             40             45
Pro Leu Trp Lys Cys Val Trp Leu Phe Leu Lys Asp Leu Glu Leu Glu
      50             55             60
Ile Leu Phe Val Pro Ala Ile Pro Leu Leu Gly Ile Tyr Pro Lys Glu
      65             70             75             80
Tyr Lys Pro Phe Tyr Tyr Lys Asp Thr Cys Thr Phe Leu Phe Ile Ala
      85             90             95
Ala Leu Phe Thr Ile Ala Lys Thr Gln
      100             105

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<210> 2430

<211> 166

<212> PRT

<213> Homo sapiens

<400> 2430

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Met Lys Ser Lys Glu Arg His Pro Cys Ser Pro Ser Asp His Arg Arg
 1             5             10             15
Ser Arg Ser Pro Ser Gln Arg Arg Thr Arg Ser Arg Ser Ser Ser Trp
      20             25             30
Gly Arg Asn Arg Arg Arg Ser Asp Ser Leu Lys Glu Ser Arg His Arg
      35             40             45
Arg Phe Ser Tyr Ser Gln Ser Lys Ser Arg Ser Lys Ser Leu Pro Arg
      50             55             60
Arg Ser Thr Ser Ala Arg Gln Ser Arg Thr Pro Arg Arg Asn Phe Gly

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65 70 75 80
 Ser Arg Gly Arg Ser Arg Ser Lys Ser Leu Gln Lys Arg Ser Lys Ser
 85 90 95
 Ile Gly Lys Ser Gln Ser Ser Ser Pro Gln Lys Gln Thr Ser Ser Gly
 100 105 110
 Thr Lys Ser Arg Ser His Gly Arg His Ser Asp Ser Ile Ala Arg Ser
 115 120 125
 Pro Cys Lys Ser Pro Lys Gly Tyr Thr Asn Ser Glu Thr Lys Val Gln
 130 135 140
 Thr Ala Lys His Ser His Phe Arg Ser His Ser Arg Ser Arg Ser Tyr
 145 150 155 160
 Arg His Lys Asn Ser Trp
 165

<210> 2431

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2431

Met Arg Glu Glu Met Ser Leu Gly Cys Gln Glu Ala Phe Glu Ile Phe
 1 5 10 15
 Lys Arg Asp His Ala Asp Ser Val Thr Ile Asp Asp Asn Lys Gln Ile
 20 25 30
 Leu Lys Gln Arg Phe Ser Glu Ala Lys Ala Leu Gly Glu Ser Ile Asn
 35 40 45
 Glu Ala Arg Ser Lys Ile Gly His Leu Lys Glu Glu Ile Thr Gln Arg
 50 55 60
 His Ile Gln Gln Val Ala Leu Gly Ile Ser Glu Asn Met Ala Val Pro
 65 70 75 80
 Leu Met Pro Asp Gln Gln Glu Glu Lys Leu Arg Ser Gln Leu Glu Glu
 85 90 95
 Glu Lys Arg Arg Tyr Lys Thr Met Phe Thr Arg Leu Lys Ala Leu Lys
 100 105 110
 Val Glu Ile Glu His Leu Gln Leu Leu Met Asp Lys Ala Lys Val Lys

115	120	125
Leu Gln Lys Glu Phe Glu Val Trp Trp Ala Glu Glu Ala Thr Asn Leu		
130	135	140
Gln Val Asn Ser Pro Ala Val Asn Ser Leu Asp His Thr Lys Ser Lys		
145	150	155
Ile Lys Ala Leu Ala Asp Ser Met Ser Val Met		
165	170	

<210> 2432

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2432

Met Pro Thr Ser Ser Phe Tyr Ala Cys Leu Thr Leu Phe Leu His Thr
1 5 10 15
Gly Pro Arg Cys His Leu Gln Glu Ala Phe Ser His Pro Ile Leu Val
20 25 30
Arg Ser Gly Cys His Asn Lys Ile Ser Ser Ile Gly Tyr Leu Arg Asn
35 40 45
Asn Arg Asn Val Phe Leu Thr Val Leu Lys Thr Gly Gln Ser Trp Val
50 55 60
Arg Val Leu Val Glu Ser Val Ser Gly Glu Gly Leu Arg Cys Leu Ser
65 70 75 80
Thr Val Ser Pro Arg Gly Gly Gly Val Arg Gly Leu Pro Gln Gly Ser
85 90 95
Phe Ile Arg Thr Arg Ile Pro Phe Met Arg Ala Asn His Pro Met Ala
100 105 110

<210> 2433

<211> 341

<212> PRT

<213> Homo sapiens

<400> 2433

Met Asn Cys Asn Phe Gln Lys His Ala Pro Leu Glu Glu Phe Tyr Ser
 1 5 10 15
 Phe Gly Glu Ser Met Cys Glu Tyr Phe Gly His Arg Gly Ser Lys Gln
 20 25 30
 Leu His Arg Gly Lys Pro Val Arg Leu Gly Tyr Lys Ile Trp Cys Gly
 35 40 45
 Thr Thr Ser Arg Gly Tyr Leu Val Trp Phe Glu Pro Ser Gln Gly Thr
 50 55 60
 Leu Phe Thr Lys Pro Asp Arg Ser Leu Asp Leu Gly Gly Ser Met Val
 65 70 75 80
 Ile Lys Phe Val Asp Ala Leu Gln Glu Arg Gly Phe Leu Pro Tyr His
 85 90 95
 Ile Phe Phe Asp Lys Val Phe Thr Ser Val Lys Leu Met Ser Ile Leu
 100 105 110
 Arg Lys Lys Gly Val Lys Ala Thr Gly Thr Val Arg Glu Tyr Arg Thr
 115 120 125
 Glu Arg Cys Pro Leu Lys Asp Pro Lys Glu Leu Lys Lys Met Lys Arg
 130 135 140
 Gly Ser Phe Asp Tyr Lys Val Asp Glu Ser Glu Glu Ile Ile Val Cys
 145 150 155 160
 Arg Trp His Asp Ser Ser Val Val Asn Ile Cys Ser Asn Ala Val Gly
 165 170 175
 Ile Glu Pro Val Arg Leu Thr Ser Arg His Ser Gly Ala Ala Lys Thr
 180 185 190
 Arg Thr Gln Val His Gln Pro Ser Leu Val Lys Leu Tyr Gln Glu Lys
 195 200 205
 Val Gly Gly Val Gly Arg Met Asp Gln Asn Ile Ala Lys Tyr Lys Val
 210 215 220
 Lys Ile Arg Gly Met Lys Trp Tyr Ser Ser Phe Ile Gly Tyr Val Ile
 225 230 235 240
 Asp Ala Ala Leu Asn Asn Ala Trp Gln Leu His Arg Ile Cys Cys Gln
 245 250 255
 Asp Ala Gln Val Asp Leu Leu Ala Phe Arg Arg Tyr Ile Ala Cys Val
 260 265 270
 Tyr Leu Glu Ser Asn Ala Asp Thr Thr Ser Gln Gly Arg Arg Ser Arg

275 280 285
 Arg Leu Glu Thr Glu Ser Arg Phe Asp Met Ile Gly His Trp Ile Ile
 290 295 300
 His Gln Asp Lys Arg Thr Arg Cys Ala Leu Cys His Ser Gln Thr Asn
 305 310 315 320
 Thr Arg Cys Glu Lys Cys Gln Lys Gly Val His Ala Lys Cys Phe Arg
 325 330 335
 Glu Tyr His Ile Arg
 340

<210> 2434

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2434

Met Val Ile Lys Val Leu Gln Met Ser Thr Cys Arg Phe Tyr Lys Lys
 1 5 10 15
 Ser Val Leu Lys Leu Leu Tyr Gln Arg Lys Val Gln His Arg Glu Leu
 20 25 30
 Asn Ala Gln Ile Thr Arg Arg Leu Leu Gly Met Leu Val Ser Asp Phe
 35 40 45
 Tyr Val Lys Ile Leu Pro Phe Ser Ser Arg Ala Ser Lys Arg Ser Lys
 50 55 60
 Tyr Pro Leu Ser Asp Ser Ile Lys Arg Val Ile Lys Tyr Phe Ser Lys
 65 70 75 80
 Lys Arg Gly Ser Thr Gln Trp Val Glu Cys Arg Asn His Gly Glu Val
 85 90 95
 Ser Gln Ser Ala Ser Phe
 100

<210> 2435

<211> 159

<212> PRT

<213> Homo sapiens

<400> 2435

```

Met Ser Pro Ser Trp Glu Gln Pro Pro Ser Ser Gly Pro Val Ala Ile
 1              5              10              15
Gln Leu Gln Ser Glu His Ser Thr Ser Cys Thr Gly Ile Ser Ala Gly
      20              25              30
Glu Lys Asp Ile Arg Val Thr Ile Ser Thr Thr Gly Arg Glu Leu Gln
      35              40              45
Gly Arg Arg Gln Pro Thr Leu Ser Leu Gln Pro Asn Cys Thr Ser Pro
      50              55              60
Leu Arg Cys Gly Ala Pro Ala Ser Lys Ala Arg Glu Leu Ser Phe Pro
      65              70              75              80
Lys Ala Asp Leu Asn Met Ser Leu Ser Pro Leu Lys Glu Asn Asn Asn
      85              90              95
Asp Thr Phe Tyr Leu Phe Ile Leu Arg Glu Gly Leu Thr Leu Leu Pro
      100             105             110
Arg Leu Glu Cys Ser Gly Met Ile Thr Ala His Tyr Ser Leu Gly Leu
      115             120             125
Pro Gly Ser Ser Gly Pro Pro Thr Ser Ala Ser Gln Gly Ser Gly Thr
      130             135             140
Thr Gly Met Cys His His Thr Trp Leu Thr Leu Asn Lys Phe Leu
      145             150             155

```

<210> 2436

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2436

```

Met Ser Pro Val Ser Arg Val Glu Ile Asp Val Leu Gln Asn Ser Leu
 1              5              10              15
Leu Asp Asp Leu Ala Pro Gly Ser Gly Lys Ser Glu Pro Arg Pro Arg
      20              25              30
Phe Thr Val Leu Pro Gln Ile Leu Gly Met Leu Gln Glu Ala Glu Leu

```

35 40 45
 Gln Gly Pro Ser Gly Phe Arg Pro Gln Thr Pro Gly Ser Leu Gln Ser
 50 55 60
 His His Glu Ser Cys Ser Val Ala Gln Ala Gly Val Gln Trp Cys Asp
 65 70 75 80
 Leu Gly Ser Leu Gln Arg Leu Pro Pro Arg Phe Lys Arg Phe Ser His
 85 90 95
 Leu Ser Leu Leu Asn Arg Trp Asp Tyr Arg His Pro Pro Pro Arg Pro
 100 105 110
 Asp Asn Ile Cys Ile Phe Ser Arg Asp Gly Val Ser Thr Tyr Ser Pro
 115 120 125
 Gly Trp Pro
 130

<210> 2437

<211> 673

<212> PRT

<213> Homo sapiens

<400> 2437

Met Thr Ala Pro Pro Ile Ser His Glu Tyr Tyr Asp Pro Ala Glu Phe
 1 5 10 15
 Met Glu Gly Gly Pro Gln Glu Ala Asp Arg Leu Asp Glu Leu Glu Tyr
 20 25 30
 Glu Glu Val Glu Leu Tyr Lys Ser Ser His Arg Asp Lys Leu Gly Leu
 35 40 45
 Met Val Cys Tyr Arg Thr Asp Asp Glu Glu Asp Leu Gly Ile Tyr Val
 50 55 60
 Gly Glu Val Asn Pro Asn Ser Ile Ala Ala Lys Asp Gly Arg Ile Arg
 65 70 75 80
 Glu Gly Asp Arg Ile Ile Gln Ile Asn Gly Val Asp Val Gln Asn Arg
 85 90 95
 Glu Glu Ala Val Ala Ile Leu Ser Gln Glu Glu Asn Thr Asn Ile Ser
 100 105 110
 Leu Leu Val Ala Arg Pro Glu Ser Gln Leu Ala Lys Arg Trp Lys Asp

115	120	125
Ser Asp Arg Asp Asp Phe Leu Asp Asp Phe Gly Ser Glu Asn Glu Gly		
130	135	140
Glu Leu Arg Ala Arg Lys Leu Lys Ser Pro Pro Ala Gln Gln Pro Gly		
145	150	155
Asn Glu Glu Glu Lys Gly Ala Pro Asp Ala Gly Pro Gly Leu Ser Asn		
165	170	175
Ser Gln Glu Leu Asp Ser Gly Val Gly Arg Thr Asp Glu Ser Thr Arg		
180	185	190
Asn Glu Glu Ser Ser Glu His Asp Leu Leu Gly Asp Glu Pro Pro Ser		
195	200	205
Ser Thr Asn Thr Pro Gly Ser Leu Arg Lys Phe Gly Leu Gln Gly Asp		
210	215	220
Ala Leu Gln Ser Arg Asp Phe His Phe Ser Met Asp Ser Leu Leu Ala		
225	230	235
Glu Gly Ala Gly Leu Gly Gly Gly Asp Val Pro Gly Leu Thr Asp Glu		
245	250	255
Glu Tyr Glu Arg Tyr Arg Glu Leu Leu Glu Ile Lys Cys His Leu Glu		
260	265	270
Asn Gly Asn Gln Leu Gly Leu Leu Phe Pro Arg Ala Ser Gly Gly Asn		
275	280	285
Ser Ala Leu Asp Val Asn Arg Asn Glu Ser Leu Gly His Glu Met Ala		
290	295	300
Met Leu Glu Glu Glu Leu Arg His Leu Glu Phe Lys Cys Arg Asn Ile		
305	310	315
Leu Arg Ala Gln Lys Met Gln Gln Leu Arg Glu Arg Cys Met Lys Ala		
325	330	335
Trp Leu Leu Glu Glu Glu Ser Leu Tyr Asp Leu Ala Ala Ser Glu Pro		
340	345	350
Lys Lys His Glu Leu Ser Asp Ile Ser Glu Leu Pro Glu Lys Ser Asp		
355	360	365
Lys Asp Ser Thr Ser Ala Tyr Asn Thr Gly Glu Ser Cys Arg Ser Thr		
370	375	380
Pro Leu Leu Val Glu Pro Leu Pro Glu Ser Pro Leu Arg Arg Ala Met		
385	390	395
Ala Gly Asn Ser Asn Leu Asn Arg Thr Pro Pro Gly Pro Ala Val Ala		

405	410	415
Thr Pro Ala Lys Ala Ala Pro Pro	Pro Gly Ser Pro Ala Lys Phe Arg	
420	425	430
Ser Leu Ser Arg Asp Pro Glu Ala Gly Arg Arg Gln His Ala Glu Glu		
435	440	445
Arg Gly Arg Arg Asn Pro Lys Thr Gly Leu Thr Leu Glu Arg Val Gly		
450	455	460
Pro Glu Ser Ser Pro Tyr Leu Ser Arg Arg His Arg Gly Gln Gly Gln		
465	470	475
Glu Gly Glu His Tyr His Ser Cys Val Gln Leu Ala Pro Thr Arg Gly		
485	490	495
Leu Glu Glu Leu Gly His Gly Pro Leu Ser Leu Ala Gly Gly Pro Arg		
500	505	510
Val Gly Gly Val Ala Ala Ala Ala Thr Glu Ala Pro Arg Met Glu Trp		
515	520	525
Lys Val Lys Val Arg Ser Asp Gly Thr Arg Tyr Val Ala Lys Arg Pro		
530	535	540
Val Arg Asp Arg Leu Leu Lys Ala Arg Ala Leu Lys Ile Arg Glu Glu		
545	550	555
Arg Ser Gly Met Thr Thr Asp Asp Asp Ala Val Ser Glu Met Lys Met		
565	570	575
Gly Arg Tyr Trp Ser Lys Glu Glu Arg Lys Gln His Leu Ile Arg Ala		
580	585	590
Arg Glu Gln Arg Lys Arg Arg Glu Phe Met Met Gln Ser Arg Leu Glu		
595	600	605
Cys Leu Arg Glu Gln Gln Asn Gly Asp Ser Lys Pro Glu Leu Asn Ile		
610	615	620
Ile Ala Leu Ser His Arg Lys Thr Met Lys Lys Arg Asn Lys Lys Ile		
625	630	635
Leu Asp Asn Trp Ile Thr Ile Gln Glu Met Leu Ala His Gly Ala Arg		
645	650	655
Ser Ala Asp Gly Lys Arg Val Tyr Asn Pro Leu Leu Ser Val Thr Thr		
660	665	670
Val		

<210> 2438

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2438

```

Met Ala Phe Ser Ser Thr His Pro His Thr Ala Cys Arg Lys Gly Pro
  1              5              10              15
Arg Glu Lys Ser Gln Gly Arg Lys Ala Glu Glu Asp Gly Pro Gly Phe
              20              25              30
Gly Leu Ser Val Leu Gly Ala Leu Leu Pro Gln Glu Gly Gln Arg Gly
              35              40              45
Pro Trp Cys Cys Cys His His Tyr His Pro Gly His Glu Ile Ala Gly
              50              55              60
Leu Gly Gln Thr Gln Arg Arg Thr Gly Arg Ala Arg Val Ser Gln Glu
              65              70              75              80
His Ser Ser Ser Ala Leu Gly Cys Trp Gln Val Ala Leu Met Ala Phe
              85              90              95
Gln Arg Gln Ser Leu His Pro Gly Gln Ser Ser Leu Phe Ser Gly Ala
              100             105             110
Lys His Ile Gly Ser Phe Val Gln Phe Ile Asn Ser Thr Ser Leu Phe
              115             120             125
Leu Arg Glu Thr Trp Leu Trp Pro Val Leu Leu Pro His Pro
              130             135             140

```

<210> 2439

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2439

```

Met Arg Ser Gly Gln Asp Pro Gln Thr Pro Ser Gly Asn Thr Lys His
  1              5              10              15

```

Pro	Glu	Ser	Arg	Leu	Gln	Glu	Pro	Cys	Gly	Val	Arg	Leu	Cys	Gln	Arg
20				25				30							
Tyr	Thr	Ala	Gly	His	Lys	Cys	Pro	Leu	Ser	Val	Pro	Pro	Phe	Arg	Ala
35				40				45							
Val	Pro	Cys	Leu	Ser	Gln	Gly	Pro	Val	Thr	Ser	Leu	Gln	Gln	Ser	Pro
50				55				60							
Ile	Pro	Ala	Thr	Pro	Gly	Ser	Val	Arg	Pro	Thr	Leu	Phe	Pro	Arg	Glu
65				70				75				80			
Arg	Arg	Arg	Glu	Lys	Thr	Gly	Trp	Ala	Arg	Trp	Leu	Thr	Pro	Val	Ile
85				90				95							
Pro	Ala	Leu	Trp	Glu	Val	Glu	Val	Gly	Gly	Ser	Pro	Glu	Val	Arg	Ser
100				105				110							
Leu	Arg	Pro	Ala	Trp	Pro	Thr	Trp								
115				120											

<210> 2440

<211> 275

<212> PRT

<213> Homo sapiens

 $\langle 400 \rangle$ 2440

Met	Ser	Thr	Ile	Gly	Ser	Phe	Glu	Gly	Phe	Gln	Ala	Val	Ser	Leu	Lys
1				5					10					15	
Gln	Glu	Gly	Asp	Asp	Gln	Pro	Ser	Glu	Thr	Asp	His	Leu	Ser	Met	Glu
			20					25					30		
Glu	Glu	Asp	Pro	Met	Pro	Arg	Gln	Ile	Ser	Arg	Gln	Ser	Ser	Val	Thr
			35				40					45			
Glu	Ser	Thr	Leu	Tyr	Pro	Asn	Pro	Tyr	His	Gln	Pro	Tyr	Ile	Ser	Arg
	50					55					60				
Lys	Tyr	Phe	Ala	Thr	Arg	Pro	Gly	Ala	Ile	Glu	Thr	Ala	Met	Glu	Asp
65					70					75				80	
Leu	Lys	Gly	His	Val	Ala	Glu	Thr	Ser	Gly	Glu	Thr	Ile	Gln	Gly	Phe
			85						90					95	
Trp	Leu	Leu	Thr	Lys	Ile	Asp	His	Trp	Asn	Asn	Glu	Lys	Glu	Arg	Ile
			100					105					110		

Leu Leu Val Thr Asp Lys Thr Leu Leu Ile Cys Lys Tyr Asp Phe Ile
 115 120 125
 Met Leu Ser Cys Val Gln Leu Gln Arg Ile Pro Leu Ser Ala Val Tyr
 130 135 140
 Arg Ile Cys Leu Gly Lys Phe Thr Phe Pro Gly Met Ser Leu Asp Lys
 145 150 155 160
 Arg Gln Gly Glu Gly Leu Arg Ile Tyr Trp Gly Ser Pro Glu Glu Gln
 165 170 175
 Ser Leu Leu Ser Arg Trp Asn Pro Trp Ser Thr Glu Val Pro Tyr Ala
 180 185 190
 Thr Phe Thr Glu His Pro Met Lys Tyr Thr Ser Glu Lys Phe Leu Glu
 195 200 205
 Ile Cys Lys Leu Ser Gly Phe Met Ser Lys Leu Val Pro Ala Ile Gln
 210 215 220
 Asn Ala His Lys Asn Ser Thr Gly Ser Gly Arg Gly Lys Lys Leu Met
 225 230 235 240
 Val Leu Thr Glu Pro Ile Leu Ile Glu Thr Tyr Thr Gly Leu Met Ser
 245 250 255
 Phe Ile Gly Asn Arg Asn Lys Leu Gly Tyr Ser Leu Ala Arg Gly Ser
 260 265 270
 Ile Gly Phe
 275

<210> 2441

<211> 248

<212> PRT

<213> Homo sapiens

<400> 2441

Met Ser Gln Asp Pro Leu Phe Leu Asp Leu Met Gly Thr Cys His Ser
 1 5 10 15
 Asp Ser Thr Lys Pro Ala Ile Leu Lys Pro Gln His Leu Thr Trp Tyr
 20 25 30
 Arg Thr His Leu Ala Arg Gly Leu Thr Leu Tyr Pro Pro Asp Ile Leu
 35 40 45

Asp Ala Met Leu Lys Glu Lys Lys Leu Ala Gln Asp Gln Asn Gly Ala
 50 55 60
 Leu Met Ile Pro Ile Gln Asp Leu Glu Asp Met Pro Ala Pro Gln Tyr
 65 70 75 80
 Pro Tyr Ile Pro Pro Met Thr Glu Phe Phe Phe Asp Gly Thr Ser Asp
 85 90 95
 Ile Thr Ile Phe Pro Pro Pro Ile Ser Val Glu Pro Val Glu Val Asp
 100 105 110
 Phe Gly Ala Cys Pro Gly Pro Glu Ala Pro Asn Pro Val Pro Leu Cys
 115 120 125
 Leu Met Asn His Thr Lys Gly Lys Ile Met Val Val Trp Thr Arg Arg
 130 135 140
 Ser Asp Cys Pro Phe Trp Val Thr Pro Glu Ser Cys Asp Val Pro Pro
 145 150 155 160
 Leu Lys Ser Met Ala Met Arg Leu His Phe Gln Pro Pro His Pro Asn
 165 170 175
 Cys Leu Tyr Thr Val Glu Leu Glu Ala Phe Ala Ile Tyr Lys Val Cys
 180 185 190
 Ala Arg Asn Glu Arg Glu Glu Cys Gly Val Ser Ala Arg Ser Leu Ser
 195 200 205
 Gly Leu Val Gly Trp Gln Glu Val Thr Glu Gly Ser Phe Arg Leu His
 210 215 220
 Pro Leu Arg Ala Arg Leu Ser Leu Gly Trp Thr Val Thr Pro Met Ser
 225 230 235 240
 Leu Ser Pro Pro Lys Leu Leu Ala
 245

<210> 2442

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2442

Met Ala Lys Trp Gly Cys Glu Pro Leu Ala Gln Arg Leu His Pro Arg
 1 5 10 15

Leu Glu Val Ile Leu His Val Pro Lys Gln Ala Met Pro Arg Ser Ala
 20 25 30
 Lys Lys Ser Gly Gln Pro Gly His Glu Cys Thr Pro Arg Ser Pro Gly
 35 40 45
 Asn Phe Ile Gln Asp Thr Thr Gln Pro Val Leu Gln Pro Ala Gly His
 50 55 60
 Arg Leu Pro Gln Leu Ser Arg Ala Thr Thr Thr Leu Thr Glu Val Ser
 65 70 75 80
 Gln Glu Ala Thr Leu Asp Thr Gly Arg Gln Gln Gly Met Glu Arg Gly
 85 90 95
 Lys Lys Gly Gly Lys Thr Pro Ser Cys Gly Arg Val Ala Lys Asp Gly
 100 105 110

<210> 2443

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2443

Met Gly Val Glu Glu Phe Gly Val Asn Leu Tyr Ile Leu Gln Ile Ile
 1 5 10 15
 Phe Gly Gly Val Asp Val Pro Ala Lys Phe Ile Thr Ile Leu Ser Leu
 20 25 30
 Ser Tyr Leu Gly Arg His Thr Thr Gln Ala Ala Ala Leu Leu Leu Ala
 35 40 45
 Gly Gly Ala Ile Leu Ala Leu Thr Phe Val Pro Leu Gly Glu Arg Leu
 50 55 60
 Gly Leu Pro Gln Asn Pro Leu Glu Glu Ala Ala Arg Leu Gly Ala Arg
 65 70 75 80
 Asp Phe Thr Ala Gly Ser Ala Ser Lys Ser Leu Cys Tyr Leu Glu Gln
 85 90 95
 Val Pro Ala Leu Ser Gly Ala Gln Gly Leu Ser Ser Arg Lys
 100 105 110

<210> 2444

<211> 237

<212> PRT

<213> Homo sapiens

<400> 2444

Met His Leu Thr Phe Asn Leu Arg Ser Trp Ala Cys Val Glu Leu Val

1	5	10	15
Phe Gly Ala Tyr Lys Ser Glu Ser His Leu Trp Arg Ser Ser Arg Leu			
20	25	30	
Val Lys Cys Gly Gln Thr Cys Phe Pro Pro Leu Gly Asn Gly Thr Glu			
35	40	45	
Gln Pro Ile Cys Lys Thr Trp Phe Phe Ser Ile Arg Trp Val Ile Tyr			
50	55	60	
Met Tyr Val Leu Val Leu Trp Phe Phe Leu Phe Phe Val Leu Phe Cys			
65	70	75	80
Phe Val Leu Arg Pro Ser Leu Ala Leu Ser Pro Gly Arg Glu Cys Ser			
85	90	95	
Gly Ala Ile Pro Ala His Ser His Leu Cys Val Pro Gly Leu Gly Gly			
100	105	110	
Ser Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr Gly Asp Thr Gln			
115	120	125	
Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe Cys His Val Gly Gln			
130	135	140	
Ala Asp Leu Lys Leu Leu Thr Ser Ser Asn Pro Pro Thr Leu Ala Ser			
145	150	155	160
Gln Ser Ala Arg Ile Thr Asp Met Ser His His Ala Trp Pro Thr Met			
165	170	175	
Val Tyr Phe Tyr Lys Asn Phe Tyr Ser Glu Lys Met Gly Thr Phe Ser			
180	185	190	
Val Val Val Ile Thr Val Ser Cys Arg Leu Cys Val Arg Ser Ala Val			
195	200	205	
Glu Pro Val Val Ala Gln Ala Ala Leu Ser Gly Val Ser Glu Leu Phe			
210	215	220	
Pro Cys Thr Pro Val Ser Ala Gly Ala Gly Asn Ala Pro			

225

230

235

<210> 2445

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2445

Met Arg Thr Ala Thr Ser Thr Gly Arg Arg Ile Ser Pro Asn Ser Gln
 1 5 10 15
 Val Ser Gly Leu Met Ala Thr Thr Ala Glu Ser Thr Pro Arg Pro Gly
 20 25 30
 Ala Ser Ser Cys Leu Ala Gly Val Thr Ala Pro Ser Thr Pro Thr Gly
 35 40 45
 Cys Gly Ser Ala Ala Arg Lys Ser Ile Thr Leu Tyr Thr Leu Asn Gly
 50 55 60
 Lys Lys Val Glu Val Ala Val Lys Gln Ile Ile Ala Gly Lys Ala Val
 65 70 75 80
 Glu Gln Gly Gly Ala Phe Ser Asn Pro Glu Thr Leu Asp Leu Tyr Arg
 85 90 95
 Asp Ile Pro Glu Leu Gln Gly Phe
 100

<210> 2446

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2446

Met Val His Ile Asn Tyr Met Trp Gly Lys Asn Ala Ile Phe Trp Ala
 1 5 10 15
 Arg Glu Thr Lys Gly Phe Ser Ile Tyr Glu Met Pro Gly Cys Gln Phe
 20 25 30
 Ser Lys Pro Phe Pro Leu Asp Tyr Ser Gly Pro Arg Pro Phe Ser Asn

35 40 45
 Pro Thr Asn Gln Leu Leu Asp Pro Ala Pro Arg Ser Ser Gly Leu Gly
 50 55 60
 Ala Gly Phe Arg Glu Glu Asn Leu Ile Lys Leu Phe Cys Leu Val Leu
 65 70 75 80
 Val Thr Ala Val Ala Gly Glu Glu Phe Ile Ile Ile Lys Tyr Ile Phe
 85 90 95
 Val Ile Thr Leu Trp Ile Leu Ile Ile His Leu Val
 100 105

<210> 2447

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2447

Met Cys Asn Lys Ala Gly Glu Thr Val Gln His Thr Arg Gly Gln Pro
 1 5 10 15
 Phe Pro Leu Met Val Ala Glu Leu Thr Pro Gly Gly Gly Leu Thr Pro
 20 25 30
 Ala Ala Arg Ala Arg Leu Asp Phe Arg Asn Met Ala Leu Leu Ala Trp
 35 40 45
 Asp Ser Arg Ala Val Glu Ile Pro Val Gly Gly Arg Pro Gly Pro Ser
 50 55 60
 His Gly Leu Gly Ser Arg Lys Pro Arg Phe His Thr Met Glu Arg Gln
 65 70 75 80
 Pro Pro Ala Trp Ala Gly Arg Gly Leu Ser His Leu Leu Leu Ser Ser
 85 90 95
 Ala Gly Leu Arg Arg Ala Glu Leu Pro Gly Ala Gly Val Ala Asn Glu
 100 105 110
 Asp Asn Lys Gln Met
 115

<210> 2448

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2448

```

Met Pro Cys Ser Ser Arg Leu Leu Met Ala Tyr Ile Glu Asp Thr Gly
  1                   5                   10                   15
Lys Met Val Val Asp Met Pro Ser Thr Met Thr Ser Lys Pro Gln Tyr
                   20                   25                   30
Phe His Pro Lys Ser Leu Thr Ser Asp Asn Ser His Ile Pro Leu Leu
                   35                   40                   45
Leu Pro Asn Trp Lys Ala Asp Cys Pro Val Asn Val Thr Met Ser Leu
                   50                   55                   60
Lys His Leu Ile Lys Asn Leu Leu Asn Trp Asp Ile Trp Val Gly Lys
                   65                   70                   75                   80
Ile Gly Ile Pro Leu Trp Lys Thr Pro Arg Leu Pro Trp Ser Tyr Thr
                   85                   90                   95
Asn Trp Leu Asn Ser Ser Gly Lys Asn Thr Leu Pro Arg Ile Pro Arg
                   100                  105                  110
Lys Thr Gly Asp Asn Gly Asp Val Gly Asp Val Gly Arg Gln Lys Gln
                   115                  120                  125
His Gln Glu Lys
                   130

```

<210> 2449

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2449

```

Met Tyr Leu Leu Arg Lys Ser Phe Ala Leu Val Ala Gln Ala Gly Val
  1                   5                   10                   15
Gln Trp His Asp Leu Ser Ser Pro Gln Pro Leu Pro Pro Arg Phe Lys
                   20                   25                   30
Gln Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Met

```

35	40	45
Pro Pro Arg Pro Ala Asn Phe Phe Val Phe Leu Leu Glu Thr Gly Phe		
50	55	60
Leu His Val Gly Gln Ala Gly Leu Glu Ile Ser Thr Ser Gly Asp Pro		
65	70	75
Pro Val Ser Val Ser Gln Ser Ala Gly Ile Thr Asp Val Ser His His		
85	90	95
Ala Arg Pro Asn Ile Phe Cys His Ser Arg Ile Lys Pro Cys Thr Gln		
100	105	110
Asp Ala Gly Arg Pro His Ser Gln Tyr Phe Met His Leu Ala Asp Thr		
115	120	125
Asn Leu Leu Ser Val Cys Met Gly Leu Pro Ile Leu Gly Met		
130	135	140

<210> 2450

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2450

Met Leu Phe Leu Leu Thr Pro Ser Ser His His Gln His Glu Cys Val		
1	5	10
Arg Arg Ala Phe Glu Cys Gly Asp Cys His Ile Leu Leu Asp Asn Asn		
20	25	30
Val Leu Gly Val Asp Cys His Gly Ala Gly Glu Arg Ala Val His Leu		
35	40	45
Glu Asp His Phe Val His Ile Asp Thr Ile Ser Leu Leu Leu Glu Asp		
50	55	60
Ala Leu Glu Tyr Ser Ala Leu Ile Ala Gly His Pro Lys Ser Asp Leu		
65	70	75
Pro Pro Gly Leu Ser Arg Cys Arg Pro Trp Glu His His Trp Pro Ile		
85	90	95
Ser Tyr Thr Gly		
100		

<210> 2451

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2451

```

Met Phe Val His Leu Cys Gly Asp Ile Cys Asp Ile Leu Leu Thr Cys
  1             5             10             15
Ile Glu Cys Val Met Ile Lys Ser Glu Tyr Leu Gly Tyr Pro Ser Leu
      20             25             30
Arg Val Ser Thr Ile Cys Met Cys Trp Glu His Phe Lys Phe Ser Pro
      35             40             45
Leu Ala Ile Leu Lys Tyr Thr Thr Tyr Cys Glu Leu Glu Ser Pro Tyr
      50             55             60
Ser Ala Ile Gln Tyr Tyr Asn Leu Phe Leu Leu Ser Asp Cys Met Leu
      65             70             75             80
Tyr Pro Leu Thr Asn Leu Ser Ser Ser Pro Cys Pro Leu Thr Tyr Pro
      85             90             95
Phe Gln Thr Leu Glu Ser Ile Ile Leu Leu Tyr Phe Tyr Phe
      100            105            110

```

<210> 2452

<211> 159

<212> PRT

<213> Homo sapiens

<400> 2452

```

Met Gln Thr Ala Ala His His Arg Gly Val Pro His Gly Cys Leu Ser
  1             5             10             15
Leu Leu Gly Trp Ser Lys Thr Ser His Ser Leu Glu Ala Pro Glu Asp
      20             25             30
Asp Gly Gly Trp Ser Ser Ala Glu Glu Gln Ile Asn Ser Ser Asp Ala
      35             40             45
Glu Glu Asp Gly Gly Leu Gly Pro Lys Lys Leu Val Pro Gly Lys Tyr

```

50 55 60
 Thr Val Val Ala Asp His Glu Lys Gly Gly Pro Asp Ala Leu Arg Val
 65 70 75 80
 Arg Ser Gly Asp Val Val Glu Leu Val Gln Glu Gly Asp Glu Gly Leu
 85 90 95
 Trp Tyr Val Arg Asp Pro Thr Thr Gly Lys Glu Gly Trp Val Pro Ala
 100 105 110
 Ser Ser Leu Ser Val Arg Leu Gly Pro Ser Gly Ser Ala Gln Cys Leu
 115 120 125
 Ser Ser Ser Glu Ser Ser Pro Gly Ser Ala Val Leu Ser Asn Ser Ser
 130 135 140
 Ser Cys Ser Glu Gly Gly Gln Ala Pro Phe Ser Asp Leu Gln Gly
 145 150 155

<210> 2453

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2453

Met Phe Thr Gln Thr Gly Ala Leu Glu Leu Arg Thr Arg Val Phe Ser
 1 5 10 15
 Ala Gly Arg Cys Ala Gln Ile Lys Pro Pro Arg Gly Asn Leu His Gly
 20 25 30
 Val Arg Cys Lys Val Thr Pro Phe Asn Ser Arg Tyr Gln Leu His Pro
 35 40 45
 Ser Val Arg Gly Lys Glu Val Arg Tyr Ser Gly Phe Asn Pro Arg Pro
 50 55 60
 Ala Gln Pro Gln His Ala Gln Ser Arg Gly Tyr Leu Gly Thr Gly Arg
 65 70 75 80
 His Leu Thr Pro Ser Leu Thr Gln Pro Gly Phe Gly Ser Ser Gln Pro
 85 90 95
 Ala Ser His Pro Leu Cys Gly Tyr
 100

<210> 2454

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2454

```

Met Gly Trp Gly Lys Val Ala Arg Phe Arg Arg Arg Glu Arg Lys Asn
  1             5             10             15
Arg Cys Ser Ser Lys Glu Asp Cys Arg Cys Ser Pro Gly Pro Gly Ser
          20             25             30
Leu Pro Arg Arg Arg Ala Ala Arg Thr Pro Ala Ser Trp Gln Arg Ser
          35             40             45
Pro Arg Arg Asn His His Ser Glu Ala Phe Cys Pro Leu Ala Ala Ala
          50             55             60
Leu Pro Lys Thr Thr Gly Pro Pro Gly Gly Arg Asp Lys Pro Thr Arg
          65             70             75             80
Ser Leu Val Phe Arg Glu Arg Arg Val Pro Val Ser Leu Arg Glu Met
          85             90             95
Met Phe Lys Ile Pro Ala Arg Ala Pro Ser Pro Ala Val Lys His Gln
          100             105             110
Leu Ala Ala
          115

```

<210> 2455

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2455

```

Met Pro Ala Leu Gly Pro Leu Leu Arg Leu Glu Leu Met Arg Ala Ala
  1             5             10             15
Val Asp Thr Gly Gly Thr Gln Arg Pro Ala Ala Cys Glu Ser Ser Arg
          20             25             30
Gly Gln Ser Trp Glu Pro Gly Ala Gly Thr Arg Gln Val Ser Asp Cys

```

35	40	45
Glu Met Pro Ala Ala Ser Pro Arg Lys Ala Ala Cys Ser Ile Trp Lys		
50	55	60
Leu Leu Cys Ser Pro Trp Pro Leu Cys Ser Ser Ser Pro Gly Leu Gly		
65	70	75
Ser Thr Arg Val Pro Leu Cys Leu Ser Arg Ala His Ser Pro Thr Ala		
85	90	95
Pro Ala Cys Thr Val Met Thr Ser Gly Arg Trp Val Pro Ala Pro Ser		
100	105	110
Arg Pro Arg Pro Pro Ser Leu Leu Pro Ala Ser Cys Pro Ala Asp Pro		
115	120	125

<210> 2456

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2456

Met Cys Trp Leu Phe Phe Leu Arg Trp Ser Pro Thr Val Ser Ser Arg		
1	5	10
Leu Glu Cys Ser Gly Val Ile Leu Ala His Arg Asn Leu Ser Leu Pro		
20	25	30
Gly Ser Ser Asn Ser Cys Ala Ser Ala Ser Arg Val Ala Gly Thr Thr		
35	40	45
Gly Thr His Asn His Ala Trp Leu Ile Phe Val Phe Leu Val Glu Thr		
50	55	60
Gly Phe Cys His Val Ala Gln Ala Gly Leu Glu Leu Leu Ala Ser Ser		
65	70	75
Asp Pro Pro Ala Ser Ala Ser Gln Lys Tyr Trp Asp Tyr Arg His Glu		
85	90	95
Pro Pro Arg Pro Ala Trp Pro Phe Asp Phe Ile Phe Ile Ser Ser Trp		
100	105	110
Pro Gln Asn Ser Cys Trp Ile Leu Gln Thr Leu His Leu Tyr Gln Gly		
115	120	125
Arg Lys Lys Arg Asp Arg Ala Glu Phe Val Asn Cys Leu Cys Arg Phe		

130	135	140	
Tyr Gln Glu Lys Lys Ser Val Pro Arg Arg Leu Pro Thr Asp Phe Leu			
145	150	155	160

<210> 2457

<211> 204

<212> PRT

<213> Homo sapiens

<400> 2457

Met Asp Ser Asp Ser Gly Glu Gln Ser Glu Gly Glu Pro Val Thr Ala			
1	5	10	15
Ala Gly Pro Asp Val Phe Ser Ser Lys Ser Leu Ala Leu Gln Ala Gln			
20	25	30	
Lys Lys Ile Leu Ser Lys Ile Ala Ser Lys Thr Val Ala Asn Met Leu			
35	40	45	
Ile Asp Asp Thr Ser Ser Glu Ile Phe Asp Glu Leu Tyr Lys Val Thr			
50	55	60	
Lys Glu His Thr His Asn Lys Lys Glu Ala His Lys Ile Met Lys Asp			
65	70	75	80
Leu Ile Lys Val Ala Ile Lys Ile Gly Ile Leu Tyr Arg Asn Asn Gln			
85	90	95	
Phe Ser Gln Glu Glu Leu Val Ile Val Glu Lys Phe Arg Lys Lys Leu			
100	105	110	
Asn Gln Thr Ala Met Thr Ile Val Ser Phe Tyr Glu Val Glu Tyr Thr			
115	120	125	
Phe Asp Arg Asn Val Leu Ser Asn Leu Leu His Glu Cys Lys Asp Leu			
130	135	140	
Val His Glu Leu Val Gln Arg His Leu Thr Pro Arg Thr His Gly Arg			
145	150	155	160
Ile Asn His Val Phe Asn His Phe Ala Asp Val Glu Phe Leu Ser Thr			
165	170	175	
Leu Tyr Ser Leu Asp Gly Asp Cys Arg Pro Asn Leu Lys Arg Ile Cys			
180	185	190	
Glu Gly Ile Asn Lys Leu Leu Asp Glu Lys Val Leu			

195

200

<210> 2458

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2458

Met Glu Pro Thr Tyr Arg Val Ala Ser Arg Glu Thr His Gly His Ala
 1 5 10 15
 Pro Ser Leu Arg Pro Ser Gly Pro Leu Val Lys Leu His Gln Gly Cys
 20 25 30
 Phe Leu Leu Gly Cys Val Ser Gly Arg Gln Leu Arg Leu Val Gly Asp
 35 40 45
 Asn Leu Cys Trp Glu Val Thr Leu Leu Pro Arg Lys Phe Trp Asn Pro
 50 55 60
 Gln Pro Gly Ala Gly Thr Gly Ala Ser Ser Leu Ala Glu Ser Gln Val
 65 70 75 80
 Thr Arg Gly Pro His Val Ser Gly Phe Thr Phe Pro Tyr Phe Ile His
 85 90 95
 Ser Leu Thr Gln Ser Leu Arg Ile Thr Glu Glu His Trp Ala Glu His
 100 105 110
 Met Thr Gly Ser Leu Glu Pro Arg Gly Leu Gln Arg Gly Leu Arg Arg
 115 120 125
 Val Val Arg Val Thr Thr Val Gly Ser Leu Pro Ser Gln Lys Val Asp
 130 135 140
 Arg Ala Tyr Pro Gly Gly Gly Asp His Pro Ala Ile Arg Cys Leu Arg
 145 150 155 160
 Gln Gly Leu Gly Gln Leu Arg Gln Ala Val Phe Phe Phe Pro Phe Leu
 165 170 175
 Phe Asn Arg Cys Asn Ile Phe Ile Ile Ile Leu Glu Thr Phe Phe Leu
 180 185 190
 Pro Lys Ile Thr Asp Gln Lys Lys Phe His Leu Lys Tyr His Ala Gln
 195 200 205
 Glu Ser Thr Trp Asp Gln Lys

210

215

<210> 2459

<211> 718

<212> PRT

<213> Homo sapiens

<400> 2459

Met Asp Leu Gly Lys Val Arg Arg Ala Lys Ala Ile Leu Ser His Leu
 1 5 10 15
 Val Lys Cys Ile Ala Gly Glu Val Ala Ile Val Arg Asp Pro Asp Ala
 20 25 30
 Gly Glu Gly Thr Lys Arg His Leu Ser Arg Thr Ile Ser Val Ser Gly
 35 40 45
 Ser Thr Ala Lys Glu Thr Val Thr Val Gly Lys Asp Gly Thr Arg Asp
 50 55 60
 Tyr Thr Glu Ile Asp Ser Ile Pro Pro Leu Pro Leu Tyr Ala Leu Leu
 65 70 75 80
 Ala Ala Asp Gln Asp Thr Ser Tyr Arg Ile Ser Glu Glu Ser Thr Lys
 85 90 95
 Ile Pro Gln Ser Tyr Glu Asp Gln Thr Val Ser Gln Pro Glu Asp Gln
 100 105 110
 Tyr Ser Glu Leu Phe Gln Ile Gln Asp Ile Pro Thr Asp Asp Ile Asp
 115 120 125
 Leu Glu Pro Glu Lys Arg Glu Asn Lys Ser Lys Val Ile Asn Leu Ser
 130 135 140
 Gln Tyr Gly Pro Ala Tyr Phe Gly Gln Glu His Ala Arg Val Leu Ser
 145 150 155 160
 Ser His Leu Met His Ser Ser Leu Pro Gly Leu Thr Arg Leu Glu Gln
 165 170 175
 Met Phe Leu Val Ala Leu Ala Asp Thr Val Ala Thr Thr Ser Thr Glu
 180 185 190
 Leu Asp Glu Ser Arg Asp Lys Ser Cys Ser Gly Arg Asp Thr Leu Asp
 195 200 205
 Glu Cys Gly Leu Arg Tyr Leu Leu Ala Met Arg Leu His Thr Cys Leu

210	215	220	
Leu Thr Ser Leu Pro Pro Leu Tyr Arg Val Gln Leu Leu His Gln Gly			
225	230	235	240
Val Ser Thr Cys His Phe Ala Trp Ala Phe His Ser Glu Ala Glu Glu			
	245	250	255
Glu Leu Ile Asn Met Ile Pro Ala Ile Gln Arg Gly Asp Pro Gln Trp			
	260	265	270
Ser Glu Leu Arg Ala Met Gly Ile Gly Trp Trp Val Arg Asn Ile Asn			
	275	280	285
Thr Leu Arg Arg Cys Ile Glu Lys Val Ala Lys Ala Ser Phe Gln Arg			
290	295	300	
Asn Asn Asp Ala Leu Asp Ala Ala Leu Phe Tyr Leu Ser Met Lys Lys			
305	310	315	320
Lys Ala Val Val Trp Gly Leu Phe Arg Ser Gln His Asp Glu Lys Met			
	325	330	335
Thr Thr Phe Phe Ser His Asn Phe Asn Glu Asp Arg Trp Arg Lys Ala			
	340	345	350
Ala Leu Lys Asn Ala Phe Ser Leu Leu Gly Lys Gln Arg Phe Glu Gln			
	355	360	365
Ser Ala Ala Phe Phe Leu Leu Ala Gly Ser Leu Lys Asp Ala Ile Glu			
370	375	380	
Val Cys Leu Glu Lys Met Glu Asp Ile Gln Leu Ala Met Val Ile Ala			
385	390	395	400
Arg Leu Tyr Glu Ser Glu Phe Glu Thr Ser Ser Thr Tyr Ile Ser Ile			
	405	410	415
Leu Asn Gln Lys Ile Leu Gly Cys Gln Lys Asp Gly Ser Gly Phe Ser			
	420	425	430
Cys Lys Arg Leu His Pro Asp Pro Phe Leu Arg Ser Leu Ala Tyr Trp			
	435	440	445
Val Met Lys Asp Tyr Thr Arg Ala Leu Ala Thr Leu Leu Glu Gln Thr			
450	455	460	
Pro Lys Glu Asp Asp Glu His Gln Val Ile Ile Lys Ser Cys Asn Pro			
465	470	475	480
Val Ala Phe Ser Phe Tyr Asn Tyr Leu Arg Thr His Pro Leu Leu Ile			
	485	490	495
Arg Arg Asn Leu Ala Ser Pro Glu Gly Thr Leu Ala Thr Leu Gly Leu			

500	505	510
Lys Thr Glu Lys Asn Phe Val Asp Lys Ile Asn Leu Ile Glu Arg Lys		
515	520	525
Leu Phe Phe Thr Thr Ala Asn Ala His Phe Lys Val Gly Cys Pro Val		
530	535	540
Leu Ala Leu Glu Val Leu Ser Lys Ile Pro Lys Val Thr Lys Thr Ser		
545	550	555
Ala Leu Ser Ala Lys Lys Asp Gln Pro Asp Phe Ile Ser His Arg Met		
565	570	575
Asp Asp Val Pro Ser His Ser Lys Ala Leu Ser Asp Gly Asn Gly Ser		
580	585	590
Ser Gly Ile Glu Trp Ser Asn Val Thr Ser Ser Gln Tyr Asp Trp Ser		
595	600	605
Gln Pro Ile Val Lys Val Asp Glu Glu Pro Leu Asn Leu Asp Trp Gly		
610	615	620
Glu Asp His Asp Ser Ala Leu Asp Glu Glu Glu Asp Asp Ala Val Gly		
625	630	635
Leu Val Met Lys Ser Thr Asp Ala Arg Glu Lys Asp Lys Gln Ser Asp		
645	650	655
Gln Lys Ala Ser Asp Pro Asn Met Leu Leu Thr Pro Gln Glu Glu Asp		
660	665	670
Asp Pro Glu Gly Asp Thr Glu Val Asp Val Ile Ala Glu Gln Leu Lys		
675	680	685
Phe Arg Ala Cys Leu Lys Ile Leu Met Thr Glu Leu Arg Thr Leu Ala		
690	695	700
Thr Gly Tyr Glu Val Asp Gly Gly Lys Leu Ile His Leu Leu		
705	710	715

<210> 2460

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2460

Met Glu Thr Lys Lys Asp His Pro Tyr Thr Trp Arg Ile Glu Leu Ala

1	5	10	15
Lys Thr Glu	Lys Tyr Trp Asp Gly	Trp Phe Arg Gly	Leu Ser Asn Leu
20	25	30	
Phe Leu Ser	Cys Pro Ile Pro Lys	Leu Leu Leu Ala	Gly Val Asp
35	40	45	
Arg Leu Asp	Lys Asp Leu Thr Ile	Gly Gln Met Gln	Gly Lys Phe Gln
50	55	60	
Met Gln Val	Leu Pro Gln Cys Gly	His Ala Val His	Glu Asp Ala Pro
65	70	75	80
Asp Lys Val	Ser Leu Val Leu Ser	Asp Cys Lys Arg	Thr Thr Val Arg
85	90	95	
Ile Thr Leu	Asp Val Thr Glu Asp	Lys Ser Leu Ser	Leu Ser Leu His
100	105	110	
Cys Leu Gln	Gln Leu Leu Trp Ser	Leu Cys Arg Cys	Ser Ser Thr Ser
115	120	125	
Ser Pro Thr	Ser Pro Trp Gln Leu	Leu Met Val Leu	Val Leu Cys Ile
130	135	140	
Cys Ala Glu	Glu Leu Leu Thr Leu	Cys Tyr Phe Ile	Pro Gly Pro Cys
145	150	155	160
Gly			

<210> 2461

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2461

Met Thr Lys	Pro Trp Ile Arg	Ser His Glu Thr	Arg Ile Gln Glu Ser
1	5	10	15
Leu Ser Gln	Phe Gly His Lys	Gln Val Met Ile	Asn Pro Gly Pro Thr
20	25	30	
Thr Ser Leu	Gly Asn Thr Thr	Ile Ser Gln Ser	Ala Lys Thr Glu Pro
35	40	45	

Glu Arg Glu Thr Leu Gln Val Gln Glu Glu Arg Phe Gln Leu Leu Leu
 50 55 60
 Leu Ser Val Ala Ser Pro Asn Val Thr Thr Phe Ser Glu Gln Gly Leu
 65 70 75 80
 Val Thr Thr Thr Lys His Cys Ser Gly Thr Ala Glu Pro Leu Ala Trp
 85 90 95
 His Val Val Thr His Ser Gln His Asn Ser Leu Thr Phe
 100 105

<210> 2462

<211> 329

<212> PRT

<213> Homo sapiens

<400> 2462

Met His Gln Gly Leu Lys Asp Val Gly Ala Lys Val Thr Gly Phe Ser
 1 5 10 15
 Glu Gly Val Val Asp Ser Val Lys Gly Gly Phe Ser Ser Phe Ser Gln
 20 25 30
 Ala Thr His Ser Ala Ala Gly Ala Val Val Ser Lys Pro Arg Glu Ile
 35 40 45
 Ala Ser Leu Ile Arg Asn Lys Phe Gly Ser Ala Asp Asn Ile Pro Asn
 50 55 60
 Leu Lys Asp Ser Leu Glu Glu Gly Gln Val Asp Asp Ala Gly Lys Ala
 65 70 75 80
 Leu Gly Val Ile Ser Asn Phe Gln Ser Ser Pro Lys Tyr Gly Ser Glu
 85 90 95
 Glu Asp Cys Ser Ser Ala Thr Ser Gly Ser Val Gly Ala Asn Ser Thr
 100 105 110
 Thr Gly Gly Ile Ala Val Gly Ala Ser Ser Ser Lys Thr Asn Thr Leu
 115 120 125
 Asp Met Gln Ser Ser Gly Phe Asp Ala Leu Leu His Glu Ile Gln Glu
 130 135 140
 Ile Arg Glu Thr Gln Ala Arg Leu Glu Glu Ser Phe Glu Thr Leu Lys
 145 150 155 160

Glu His Tyr Gln Arg Asp Tyr Ser Leu Ile Met Gln Thr Leu Gln Glu
 165 170 175
 Glu Arg Tyr Arg Cys Glu Arg Leu Glu Glu Gln Leu Asn Asp Leu Thr
 180 185 190
 Glu Leu His Gln Asn Glu Ile Leu Asn Leu Lys Gln Glu Leu Ala Ser
 195 200 205
 Met Glu Glu Lys Ile Ala Tyr Gln Ser Tyr Glu Arg Ala Arg Asp Ile
 210 215 220
 Gln Glu Ala Leu Glu Ala Cys Gln Thr Arg Ile Ser Lys Met Glu Leu
 225 230 235 240
 Gln Gln Gln Gln Gln Gln Val Val Gln Leu Glu Gly Leu Glu Asn Ala
 245 250 255
 Thr Ala Arg Asn Leu Leu Gly Lys Leu Ile Asn Ile Leu Leu Ala Val
 260 265 270
 Met Ala Val Leu Leu Val Phe Val Ser Thr Val Ala Asn Cys Val Val
 275 280 285
 Pro Leu Met Lys Thr Arg Asn Arg Thr Phe Ser Thr Leu Phe Leu Val
 290 295 300
 Val Phe Ile Ala Phe Leu Trp Lys His Trp Asp Ala Leu Phe Ser Tyr
 305 310 315 320
 Val Glu Arg Phe Phe Ser Ser Pro Arg
 325

<210> 2463

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2463

Met Val Ser Thr Thr Ser Phe Ile Ala Cys Phe Leu Ile Trp Pro Pro
 1 5 10 15
 Ala Arg Leu Val Met Glu Gly Val His Ser Pro Gly Ser Val Ile Val
 20 25 30
 Pro Ile Leu Tyr Glu Ala Cys Leu Trp Ser Gly Pro Leu Thr Val Phe
 35 40 45

Ile Leu Leu Asp Pro Tyr Ser Pro Ile Arg Gln Val Leu Pro Leu Arg
 50 55 60
 Ile Lys Asn Lys Val Ser Glu Glu Glu Val Gly Lys Tyr Thr Ile Val
 65 70 75 80
 Gly Ile Cys Ala Lys Arg Ser His Glu Lys Arg Phe Leu His Gln Pro
 85 90 95
 Arg Lys Val Glu Met Ser Ala Leu Arg
 100 105

<210> 2464

<211> 210

<212> PRT

<213> Homo sapiens

<400> 2464

Met Leu Leu Leu Pro Pro Ser Cys Glu Ala Val Ala Pro Arg Gly Trp
 1 5 10 15
 Arg Arg Ser Cys Ser Cys Pro Glu Cys Cys Arg Val Cys Ser Ser Pro
 20 25 30
 Val Arg Leu Gln Arg His Arg Ala Leu Leu Ser Thr Pro Glu Ser Phe
 35 40 45
 Ala Cys Ala Ala Ser Ala Arg Ala Ser Ser Ala Pro Gly Pro Gly Ala
 50 55 60
 Ala Arg Glu Pro Ala Ser Gly Phe Gln Trp Ala Pro Trp Ala Val Pro
 65 70 75 80
 Ala Phe Pro Thr Ser Ala Ser Gly Lys Ala Trp Pro Ser Leu Arg Phe
 85 90 95
 Gly Val Ala Thr Cys Leu Leu Gly Ile Ser His Leu Pro Thr Cys Ala
 100 105 110
 Cys Ser Arg Leu Ala Leu Cys Gly Pro Arg Phe Pro His Val Pro Arg
 115 120 125
 Gly Lys Asn Ile Pro Ser Pro Thr Ile Trp Gln Arg Leu Ala Phe Ser
 130 135 140
 Gly Pro Arg Pro Pro His Leu Leu Gly Gly Glu Ser Arg Pro Gly His
 145 150 155 160

Ile Gly Ala Asn Gly Trp Ser Leu Asp Leu Gly Leu His Ile Cys Ser
 165 170 175
 Ala Gly Arg Asn Ile Pro Ser Pro Ala Leu Tyr Leu Gly Gly Trp Pro
 180 185 190
 Arg Pro Ser Arg Gln Arg Arg Pro Ser Gly Lys Arg Thr Asn Pro Cys
 195 200 205
 Gly Pro
 210

<210> 2465

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2465

Met Leu Pro Ser Pro Pro Thr Asp Val Ile Ser Phe Tyr Ile Arg Asp
 1 5 10 15
 Ser Ser Glu Pro Thr Pro Leu Arg Ile Tyr Thr Leu Val Phe Val Leu
 20 25 30
 Leu Leu Ser Leu Gly Trp Pro Val Thr Leu Ile Ser Ala Met Gln Lys
 35 40 45
 Trp Phe Ser Ala Ser Ser Lys Thr Thr Lys Arg Lys Lys Ser Ser Thr
 50 55 60
 Phe Gln Tyr Pro Ser Arg His Gln Ala Pro Ala Val Ser Pro Ala Ser
 65 70 75 80
 Arg Pro Arg Val Thr Thr Thr Asn Pro Ala Glu Pro Thr Ser Ala Ser
 85 90 95
 Gln Pro Trp Leu Gln Asn His Glu
 100

<210> 2466

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2466

Met Val Val Ser Trp Leu Leu Glu Thr Arg His Asn Gln Glu Gly Glu
 1 5 10 15
 Gly Ile Asn Leu Gly Trp Ala Gly Ala Glu Thr His Gly Met Thr Pro
 20 25 30
 Ile Leu Ser Pro Gln Ala Arg Pro Pro Arg His Pro Gln Asp His Thr
 35 40 45
 Gly Glu Ser His Pro His Gly Leu Asp Trp Ser Trp Gly Pro Pro Val
 50 55 60
 Val Leu Leu Thr Gly Val Gln Cys Ser Arg Ala Ala Gln Arg Gly Ala
 65 70 75 80
 Arg Lys Gly Pro Ser Pro Ser Pro Ala Ile Pro Ile Ser Ala Ser Leu
 85 90 95
 Ala Leu Val Pro
 100

<210> 2467

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2467

Met Thr Lys Val Ser Ser Ser Leu Gln Ser His Pro Phe Gln Leu Gly
 1 5 10 15
 Gly Pro Arg Leu His Cys Asn Ser Asn Ser Gln Ile Ser Val Asp Val
 20 25 30
 Lys Glu Gln Ile Ala Met His Val His Pro Thr Gly Val Glu Gly Phe
 35 40 45
 Tyr Ser Leu Thr Pro Ser Leu His Met Ser Leu Leu His Leu Leu Lys
 50 55 60
 Val Phe Gly Ser Glu Leu Ala Thr Trp Pro His Pro Thr Ser Arg Arg
 65 70 75 80
 Glu Asn Met Pro Ala Tyr His Val Pro Arg Arg Thr Asn Gln Asn Ile
 85 90 95

Cys Glu Leu Pro His Leu Met Thr Pro Cys His Thr Leu Leu Ser Ser
 100 105 110
 Ser Glu Phe Leu Leu His Ser Ser Ile Pro Tyr Gln Asp Arg Ser Leu
 115 120 125
 His Cys Val Arg Phe
 130

<210> 2468

<211> 269

<212> PRT

<213> Homo sapiens

<400> 2468

Met Pro Phe Met Asp Glu Ser Ser Gly Ser Asp Asp Asp Cys Ser Ser
 1 5 10 15
 Gln Ala Ser Phe Arg Ile Ser Val Pro Ser Ser Glu Ser Arg Lys Thr
 20 25 30
 Ser Gly Leu Gly Ser Pro Arg Ala Ile Lys Arg Gly Val Ser Met Ser
 35 40 45
 Ser Leu Ser Ser Glu Gly Asp Tyr Ala Ile Pro Pro Asp Ala Cys Ser
 50 55 60
 Leu Asp Ser Asp Tyr Ser Glu Pro Glu His Lys Leu Gln Arg Thr Ser
 65 70 75 80
 Ser Tyr Ser Thr Asp Gly Leu Gly Leu Gly Gly Glu Ser Leu Glu Lys
 85 90 95
 Ser Gly Tyr Leu Leu Lys Met Gly Ser Gln Val Lys Thr Trp Lys Arg
 100 105 110
 Arg Trp Phe Val Leu Arg Gln Gly Gln Ile Met Tyr Tyr Lys Ser Pro
 115 120 125
 Ser Asp Val Ile Arg Lys Pro Gln Gly Gln Val Asp Leu Asn Ser Arg
 130 135 140
 Cys Gln Ile Val Arg Gly Glu Gly Ser Gln Thr Phe Gln Leu Ile Ser
 145 150 155 160
 Glu Lys Lys Thr Tyr Tyr Leu Thr Ala Asp Ser Pro Ser Leu Leu Glu
 165 170 175

Glu Trp Ile Arg Val Leu Gln Ser Leu Leu Lys Val Gln Ala Thr Gly
 180 185 190
 Pro Pro Ala Leu Leu Arg Gly Gly Thr Lys Pro Thr Val Lys Gly Trp
 195 200 205
 Leu Thr Lys Val Lys His Gly His Ser Lys Val Val Trp Cys Ala Leu
 210 215 220
 Val Gly Lys Ile Phe Tyr Tyr Tyr Arg Ser His Glu Asp Lys Val Leu
 225 230 235 240
 Leu Ser Leu Leu Thr Ile Pro Thr Leu Leu Leu Pro Pro Lys His Met
 245 250 255
 Thr Ala Thr Leu Cys Pro Asp Glu Ser Pro Tyr Pro Thr
 260 265

<210> 2469

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2469

Met Lys Arg Ser Cys Cys Gly Arg Asn Leu Ser His Gln Asn His Ser
 1 5 10 15
 Ala Ile Ile Leu Pro Cys Gly Gly Thr Gly Gly Arg Tyr Ser Val Leu
 20 25 30
 Leu Thr Ala Val His Phe Arg Gly Leu Thr Met Glu Gln Thr Ala Trp
 35 40 45
 Val Leu Asp Leu Asp Thr Gly Glu Ala Val Leu Gln Tyr Arg Ser Leu
 50 55 60
 Pro Arg Gly Ala His Lys Thr Leu Gly Lys Lys Arg Lys Ile Ser Ser
 65 70 75 80
 Tyr Asn Val Asn Leu Thr Ser Cys Gln Leu Ala Lys Glu Lys Cys Leu
 85 90 95
 Lys Gly Pro Ser Ser Phe Leu Gln Ser Arg His Glu Arg Leu Asn Ser
 100 105 110
 Glu Leu Arg Asp Asn Lys Trp Thr Thr Gly Thr Phe Gly Gln Thr Cys
 115 120 125

Asn Phe Ile Ser

130

<210> 2470

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2470

Met Gly Leu Arg Pro Pro Gly Asn Asn His Arg Ala Cys Ser Ser Ala

1 5 10 15

Pro Ala Ser Pro Glu Ser His Pro Arg Asp Gln Pro His Pro Gln His

20 25 30

Asn Cys Pro Ala Gly Glu Ala Pro Trp Ala Trp Arg Gly Phe Pro Asp

35 40 45

Thr Ala His Pro Gly Pro Ala Ser Ser Thr Lys Thr Glu Thr Leu Ala

50 55 60

Thr His Gly Gly Trp Gly Pro Gly Val Leu Arg Arg Gly Tyr Pro Gly

65 70 75 80

Pro Arg Pro Glu Ile His Gln Leu His Pro Arg Gly Gly Thr Ala Asp

85 90 95

Gly Ser Gln His Gln Gln Asp Pro Arg Ala Pro Arg Thr Glu Val Cys

100 105 110

Pro Thr His Phe Leu Pro Thr Thr Cys Ala Pro Glu Ser Arg Ala Cys

115 120 125

Pro Gly Arg Trp Arg Pro Gly Val Glu Cys Thr Cys Ser His Glu Val

130 135 140

Leu Gly Val Phe

145

<210> 2471

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2471

Met Ala Lys Thr Glu Ile Glu Leu Gln Tyr Arg Ala Phe Pro Leu Leu
 1 5 10 15
 Gly Leu Lys Ser Arg Cys Leu Trp Lys Gly His Thr Phe Asp Ser Leu
 20 25 30
 Asp Ser Gly Glu Val Thr Lys Val Pro Arg Lys Trp Glu His Lys Trp
 35 40 45
 Glu Leu Leu Glu Val Ser Gly Val Pro Gly Gly Pro Ser Thr Glu Ser
 50 55 60
 Gly Val Leu Asn His Gln Ser Glu Leu Pro Glu Cys Gln Arg Glu Leu
 65 70 75 80
 Val Val Ala Gly His Cys Trp Asn Arg Asn Leu Glu Lys Gln Pro Ser
 85 90 95
 Arg Ser Pro Ala Cys Leu Gln Asp Gly Pro Gly Ile Leu Gly Leu Lys
 100 105 110
 Arg Cys Gly Glu Gln
 115

<210> 2472

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2472

Met Pro Leu Gly Cys Arg Glu Glu Ala Gly Gly Val Met Gly Met Gly
 1 5 10 15
 Ser Gly Arg Gly Arg Glu Gly Pro Ser Thr Lys Ala Trp Glu Met Arg
 20 25 30
 Gly Gly Gly Gly Arg Ala Gly Glu Ala Lys Ser Gln Pro Trp Arg Glu
 35 40 45
 His Pro Gly Ala Ser Val Ser Gly Tyr Thr Gln His Phe Ala Thr Cys
 50 55 60
 Gly Pro Ala Gly Ala Glu Asp Gly Gly Glu Glu Ala Ser Ser Pro Cys
 65 70 75 80

Val Tyr Cys Arg Gln Lys Gly Leu Val Phe Trp Phe Trp Gly Phe Cys
85 90 95
Phe Val Cys Val Leu Phe Gly Leu Phe Val Phe
100 105

<210> 2473
<211> 102
<212> PRT
<213> Homo sapiens

<400> 2473

Met Arg Arg Val Gly Asp Glu Asn Phe Trp Pro Pro Cys Ser Gly Leu
1 5 10 15

Leu Phe Lys His Leu Lys Ile Ser Arg Ser Phe Thr Leu Gly Gln Met
20 25 30

Thr Ser Ala Gly Ile Leu Leu Cys Pro Cys Cys Ala Lys Arg Glu Ser
35 40 45

Ile Ser Ser Phe Asp Phe His Tyr Lys Lys Pro Leu Ser Leu Thr Phe
50 55 60

Val Leu Cys Arg Cys His Tyr Tyr Tyr Trp Glu Gln Cys Cys Val Ile
65 70 75 80

Asn Thr Gly Ala Leu Glu Thr Ala Thr Leu Asp Trp Ile Pro Thr Leu
85 90 95

Pro Leu Thr Cys Val Ala
100

<210> 2474
<211> 109
<212> PRT
<213> Homo sapiens

<400> 2474
Met Leu Cys Gly Glu Pro Ser Arg Gly Phe Ser Pro Ser His Leu His
1 5 10 15

Gln His Ile Pro Asp Leu Ala Ser His Ser Cys Ala Leu Ser Ala Ser
 20 25 30
 Phe Leu Phe Leu Val Pro Leu Pro Leu Glu Gln Val Asn Tyr Arg Asn
 35 40 45
 Thr Arg Arg Asp Ser Arg Asn Pro Leu Ser Leu Arg Phe Tyr Leu Gln
 50 55 60
 Met Ile Gly Ala Leu Phe Leu Gly Thr Ser Ser Ser Ser His Ser Gln
 65 70 75 80
 Leu Val Thr Leu Glu Leu Pro Val Gly Arg Ala Gln Gly Cys Arg Ala
 85 90 95
 Leu Gly Gly His Leu Pro His Ser Leu Pro Thr His Gln
 100 105

<210> 2475

<211> 515

<212> PRT

<213> Homo sapiens

<400> 2475

Met Ser Ser Glu Met Glu Pro Leu Leu Leu Ala Trp Ser Tyr Phe Arg
 1 5 10 15
 Arg Arg Lys Phe Gln Leu Cys Ala Asp Leu Cys Thr Gln Met Leu Glu
 20 25 30
 Lys Ser Pro Tyr Asp Gln Glu Pro Asp Pro Glu Leu Pro Val His Gln
 35 40 45
 Ala Ala Trp Ile Leu Lys Ala Arg Ala Leu Thr Glu Met Val Tyr Ile
 50 55 60
 Asp Glu Ile Asp Val Asp Gln Glu Gly Ile Ala Glu Met Met Leu Asp
 65 70 75 80
 Glu Asn Ala Ile Ala Gln Val Pro Arg Pro Gly Thr Ser Leu Lys Leu
 85 90 95
 Pro Gly Thr Asn Gln Thr Gly Gly Pro Ser Gln Ala Val Arg Pro Ile
 100 105 110
 Thr Gln Ala Gly Arg Pro Ile Thr Gly Phe Leu Arg Pro Ser Thr Gln
 115 120 125

Ser Gly Arg Pro Gly Thr Met Glu Gln Ala Ile Arg Thr Pro Arg Thr
 130 135 140
 Ala Tyr Thr Ala Arg Pro Ile Thr Ser Ser Ser Gly Arg Phe Val Arg
 145 150 155 160
 Leu Gly Thr Ala Ser Met Leu Thr Ser Pro Asp Gly Pro Phe Ile Asn
 165 170 175
 Ile Ser Arg Leu Asn Leu Thr Lys Tyr Ser Gln Lys Pro Lys Leu Ala
 180 185 190
 Lys Ala Leu Phe Glu Tyr Ile Phe His His Glu Asn Asp Val Lys Thr
 195 200 205
 Ala Leu Asp Leu Ala Ala Leu Ser Thr Glu His Ser Gln Tyr Lys Asp
 210 215 220
 Trp Trp Trp Lys Val Gln Ile Gly Lys Cys Tyr Tyr Arg Leu Gly Met
 225 230 235 240
 Tyr Arg Glu Ala Glu Lys Gln Phe Lys Ser Ala Leu Lys Gln Gln Glu
 245 250 255
 Met Val Asp Thr Phe Leu Tyr Leu Ala Lys Val Tyr Val Ser Leu Asp
 260 265 270
 Gln Pro Val Thr Ala Leu Asn Leu Phe Lys Gln Gly Leu Asp Lys Phe
 275 280 285
 Pro Gly Glu Val Thr Leu Leu Cys Gly Ile Ala Arg Ile Tyr Glu Glu
 290 295 300
 Met Asn Asn Met Ser Ser Ala Ala Glu Tyr Tyr Lys Glu Val Leu Lys
 305 310 315 320
 Gln Asp Asn Thr His Val Glu Ala Ile Ala Cys Ile Gly Ser Asn His
 325 330 335
 Phe Tyr Ser Asp Gln Pro Glu Ile Ala Leu Arg Phe Tyr Arg Arg Leu
 340 345 350
 Leu Gln Met Gly Ile Tyr Asn Gly Gln Leu Phe Asn Asn Leu Gly Leu
 355 360 365
 Cys Cys Phe Tyr Ala Gln Gln Tyr Asp Met Thr Leu Thr Ser Phe Glu
 370 375 380
 Arg Ala Leu Ser Leu Ala Glu Asn Glu Glu Glu Ala Ala Asp Val Trp
 385 390 395 400
 Tyr Asn Leu Gly His Val Ala Val Gly Ile Gly Asp Thr Asn Leu Ala
 405 410 415

His	Gln	Cys	Phe	Arg	Leu	Ala	Leu	Val	Asn	Asn	Asn	Asn	His	Ala	Glu
420				425				430							
Ala	Tyr	Asn	Asn	Leu	Ala	Val	Leu	Glu	Met	Arg	Lys	Gly	His	Val	Glu
435				440				445							
Gln	Ala	Arg	Ala	Leu	Leu	Gln	Thr	Ala	Ser	Ser	Leu	Ala	Pro	His	Met
450				455				460							
Tyr	Glu	Pro	His	Phe	Asn	Phe	Ala	Thr	Ile	Ser	Asp	Lys	Ile	Gly	Asp
465				470				475				480			
Leu	Gln	Arg	Ser	Tyr	Val	Ala	Ala	Gln	Lys	Ser	Glu	Ala	Ala	Phe	Pro
485				490				495							
Asp	His	Val	Asp	Thr	Gln	His	Leu	Ile	Lys	Gln	Leu	Arg	Gln	His	Phe
500				505				510							
Ala	Met	Leu													
515															

<210> 2476

<211> 153

<212> PRT

<213> Homo sapiens

<400> 2476

Met	Asp	Gln	Asp	Ser	Val	Ser	Thr	Lys	Thr	Cys	Pro	Glu	Thr	His	Arg
1				5					10					15	
Lys	Ser	Gly	Pro	Arg	Arg	Arg	Glu	Gln	His	Gly	Ala	Leu	Gly	Ala	Ala
			20					25					30		
Asn	Ala	His	Asp	Thr	Val	Arg	Asp	Gly	Glu	Arg	Tyr	Asp	Arg	Arg	Ser
		35					40					45			
Arg	Pro	Arg	Arg	Arg	Glu	Gln	His	Gly	Ala	Leu	Gly	Ala	Ala	Asn	Ala
	50						55				60				
His	Asp	Thr	Val	Arg	Asp	Gly	Glu	Arg	Tyr	Asp	Arg	Arg	Ser	Arg	Pro
65					70					75				80	
Arg	Arg	Arg	Glu	Gln	His	Gly	Ala	Leu	Gly	Ala	Ala	Asn	Ala	His	Asp
			85						90					95	
Thr	Val	Arg	Asp	Gly	Glu	Arg	Tyr	Asp	Arg	Arg	Ser	Arg	Pro	Arg	Arg
			100					105					110		

Gln Glu Gln His Gly Ala Leu Gly Ala Ala Asn Ala His Asp Thr Val
 115 120 125
 Arg Asp Gly Glu Arg Tyr Gly His Gly Gly His Lys Met Leu Leu Asn
 130 135 140
 Ile Tyr His Arg Pro Lys Trp Arg Thr
 145 150

<210> 2477

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2477

Met Ser Gln Thr Gly Pro Pro Met Ser Met Ala Ala Pro Ala Arg Asn
 1 5 10 15
 Ala Arg Val Ser Leu Pro Gly Leu Arg Val Asp Met Pro Ala Pro Cys
 20 25 30
 Gln Pro Pro Val Ala Trp Pro Gly Pro Pro Glu Pro Val Cys Pro Pro
 35 40 45
 Gln Gly Trp Arg Ser Leu Trp Ala Pro Gly Gly Phe Pro Pro Gly Asp
 50 55 60
 Ser His Gly Ala Pro Cys Ser Arg Val Val Thr Val Ser Pro Glu Met
 65 70 75 80
 Thr Glu Thr Arg His Ser Pro Gly Pro Gln Arg Gly Gly Ala Ser Arg
 85 90 95
 Gln Thr Leu Gly Met Glu Leu Trp Cys Gly Leu Ser Cys Met Val Ala
 100 105 110
 Ser Ala Phe Cys Gln His Phe Trp Met Asp Ile Gly Thr Ile Ile Ser
 115 120 125
 Ile Leu Ile His Gly Asp Phe Lys Thr Thr Ile Lys Leu Ile Gln Ser
 130 135 140
 Pro Leu Thr Leu Thr Asp Val Gly Ile Pro Leu Leu Glu Arg Glu Leu
 145 150 155 160

<210> 2478

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2478

```

Met Cys Trp Gly Lys His Trp Pro Arg Pro Glu Gly Arg Asn Leu Ala
 1             5             10             15
Cys Ser Lys Gly Ser Pro Gly Trp Arg Thr Ala Gly Gln Gly Ser Gly
          20             25             30
Ser Tyr Gly Ala Ala Thr Leu Gly Lys Gly Thr Glu Gln Arg Gly Val
          35             40             45
Gly Ala Leu Arg Arg Gly Leu Leu Ser Phe Thr Cys Phe Cys Leu Ser
          50             55             60
Asn Trp Thr Ser Gly Ala Gly Phe Ser Glu Met Gly Arg Ser Arg Phe
          65             70             75             80
Glu Glu Gly Arg Leu Gly Tyr Ser Ser Asp Val Leu Ser Ala Arg Pro
          85             90             95
Thr Met Ser Pro Thr Glu Met Leu Arg Ser Arg Ala Leu Asn Leu Gly
          100            105            110
Ala Ala Thr Val Leu Arg Arg His Arg Ala Pro Gln Gly Thr Ser Ser

          115            120            125
Tyr Gln Glu Gly Arg Arg Ala His Glu Ala Thr Ser Ala Glu Ser Asp
          130            135            140
Asp Asp Asn Gly Val Gln Val Leu Ala Ser Leu Ala Val Ser Cys Ala
          145            150            155            160
Gln His Ser Arg His Lys Asp Pro Val Gly Thr Gln Leu Gln Gln Ala
          165            170            175
Cys Ala Gln Val Pro Thr Ser Arg Ala Pro Leu Trp Pro Cys Pro Ser
          180            185            190
His Arg Leu Met His Ser Thr Asp Gly Pro Leu Asp Pro Glu Pro Leu
          195            200            205
Ser Thr Leu Leu Pro Ala Ala
          210            215

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<210> 2479

<211> 485

<212> PRT

<213> Homo sapiens

<400> 2479

```

Met Pro Trp Arg Thr Glu Ala Ala Arg Gln Met Trp Asp Thr Asn Glu
  1             5             10            15
Glu Glu Glu Glu Glu Glu Glu Gly Leu Leu Lys Arg Lys Lys Arg
      20             25            30
Arg Arg Gln Lys Ser Arg Lys Tyr Gln Thr Gly Glu Tyr Leu Thr Glu
      35             40            45
Gln Glu Asp Glu Gln Arg Arg Lys Gly Arg Ala Asp Leu Lys Ala Arg
      50             55            60
Lys Gln Lys Thr Ser Ser Ser Gln Ser Leu Glu His Arg Leu Arg Asn
      65             70            75            80
Arg Asn Leu Leu Leu Pro Asn Lys Val Gln Gly Ile Ser Asp Ser Pro
      85             90            95
Asn Gly Phe Leu Pro Asn Asn Leu Glu Glu Pro Ala Cys Leu Glu Asn
      100            105            110
Ser Glu Lys Pro Ser Gly Lys Arg Lys Cys Lys Thr Lys His Met Ala
      115            120            125
Thr Val Ser Glu Glu Ala Lys Gly Lys Gly Arg Trp Ser Gln Gln Lys
      130            135            140
Thr Arg Ser Pro Lys Ser Pro Thr Pro Val Lys Pro Thr Glu Pro Cys
      145            150            155            160
Thr Pro Ser Lys Ser Arg Ser Ala Ser Ser Glu Glu Ala Ser Glu Ser
      165            170            175
Pro Thr Ala Arg Gln Ile Pro Pro Glu Ala Arg Arg Leu Ile Val Asn
      180            185            190
Lys Asn Ala Gly Glu Thr Leu Leu Gln Arg Ala Ala Arg Leu Gly Tyr
      195            200            205
Lys Asp Val Val Leu Tyr Cys Leu Gln Lys Asp Ser Glu Asp Val Asn
      210            215            220
His Arg Asp Asn Ala Gly Tyr Thr Ala Leu His Glu Ala Cys Ser Arg

```

225 230 235 240
 Gly Trp Thr Asp Ile Leu Asn Ile Leu Leu Glu His Gly Ala Asn Val
 245 250 255
 Asn Cys Ser Ala Gln Asp Gly Thr Arg Pro Val His Asp Ala Val Val
 260 265 270
 Asn Asp Asn Leu Glu Thr Ile Trp Leu Leu Leu Ser Tyr Gly Ala Asp
 275 280 285
 Pro Thr Leu Ala Thr Tyr Ser Gly Gln Thr Ala Met Lys Leu Ala Ser
 290 295 300
 Ser Asp Thr Met Lys Arg Phe Leu Ser Asp His Leu Ser Asp Leu Gln
 305 310 315 320
 Gly Arg Ala Glu Gly Asp Pro Gly Val Ser Trp Asp Phe Tyr Ser Ser
 325 330 335
 Ser Ala Leu Glu Glu Lys Asp Gly Phe Ala Cys Asp Leu Leu His Asn
 340 345 350
 Pro Pro Gly Ser Ser Asp Gln Glu Gly Asp Asp Pro Met Glu Glu Asp
 355 360 365
 Asp Phe Met Phe Glu Leu Ser Asp Lys Pro Leu Leu Pro Cys Tyr Asn
 370 375 380
 Leu Gln Val Ser Val Ser Arg Gly Pro Cys Asn Trp Phe Leu Phe Ser
 385 390 395 400
 Asp Val Leu Lys Arg Leu Lys Leu Ser Ser Arg Ile Phe Gln Ala Arg
 405 410 415
 Phe Pro His Phe Glu Ile Thr Thr Met Pro Lys Ala Glu Phe Tyr Arg
 420 425 430
 Gln Val Ala Ser Ser Gln Leu Leu Thr Pro Ala Glu Arg Pro Gly Gly
 435 440 445
 Leu Asp Asp Arg Ser Pro Pro Gly Ser Ser Glu Thr Val Glu Leu Val
 450 455 460
 Arg Tyr Glu Pro Asp Leu Leu Arg Leu Leu Gly Ser Glu Val Glu Phe
 465 470 475 480
 Gln Ser Cys Asn Ser
 485

<210> 2480

<211> 393

<212> PRT

<213> Homo sapiens

<400> 2480

```

Met Phe Lys Glu Gln Gln Leu Gln Ile Phe Asn Leu Met Lys Phe Asp
  1             5             10            15
Ser Tyr Thr Arg Phe Leu Lys Ser Pro Leu Tyr Gln Glu Cys Ile Leu
      20             25            30
Ala Glu Val Glu Gly Arg Ala Leu Pro Asp Ser Gln Gln Val Pro Ser
      35             40            45
Ser Pro Ala Ser Lys His Ser Leu Gly Ser Asp His Ser Ser Val Ser
      50             55            60
Thr Pro Lys Lys Leu Ser Gly Lys Ser Lys Ser Gly Arg Ser Leu Asn
      65             70            75            80
Glu Glu Leu Gly Asp Glu Asp Ser Glu Lys Lys Arg Lys Gly Ala Phe
      85             90            95
Phe Ser Trp Ser Arg Thr Arg Ser Thr Gly Arg Ser Gln Lys Lys Arg
      100            105            110
Glu His Gly Asp His Ala Asp Asp Ala Leu His Ala Asn Gly Gly Leu
      115            120            125
Cys Arg Arg Glu Ser Gln Gly Ser Val Ser Ser Ala Gly Ser Leu Asp
      130            135            140
Leu Ser Glu Ala Cys Arg Thr Leu Ala Pro Glu Lys Asp Lys Ala Thr
      145            150            155            160
Lys His Cys Cys Ile His Leu Pro Asp Gly Thr Ser Cys Val Val Ala
      165            170            175
Val Lys Ala Gly Phe Ser Ile Lys Asp Ile Leu Ser Gly Leu Cys Glu
      180            185            190
Arg His Gly Ile Asn Gly Ala Ala Ala Asp Leu Phe Leu Val Gly Gly
      195            200            205
Asp Lys Pro Leu Val Leu His Gln Asp Ser Ser Ile Leu Glu Ser Arg
      210            215            220
Asp Leu Arg Leu Glu Lys Arg Thr Leu Phe Arg Leu Asp Leu Val Pro
      225            230            235            240
Ile Asn Arg Ser Val Gly Leu Lys Ala Lys Pro Thr Lys Pro Val Thr

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245 250 255
 Glu Val Leu Arg Pro Val Val Ala Arg Tyr Gly Leu Asp Leu Ser Gly
 260 265 270
 Leu Leu Val Arg Leu Ser Gly Glu Lys Glu Pro Leu Asp Leu Gly Ala
 275 280 285
 Pro Ile Ser Ser Leu Asp Gly Gln Arg Val Val Leu Glu Glu Lys Asp
 290 295 300
 Pro Ser Arg Gly Lys Ala Ser Ala Asp Lys Gln Lys Gly Val Pro Val
 305 310 315 320
 Lys Gln Asn Thr Ala Val Asn Ser Ser Ser Arg Asn His Ser Ala Thr
 325 330 335
 Val Ile Pro His Pro Gly Pro Pro Cys Ala Leu Leu Leu Pro Leu Trp
 340 345 350
 Pro Pro Pro Ala Leu Arg Ser Ala Leu Val Leu Pro Tyr Arg Leu Leu
 355 360 365
 Ile Thr Val Cys Leu Pro His Ala Pro Trp Arg Gly Leu Ser Arg Pro
 370 375 380
 Cys Arg Cys Pro Ala Pro Ser Tyr Leu
 385 390

<210> 2481

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2481

Met Ser Tyr Leu Gly Ser Leu Phe Val Phe Glu Cys Leu Val Phe Ile
 1 5 10 15
 Glu Pro Tyr Ser Leu Arg Arg Trp Asn Ile Trp Lys Asn Phe Lys Thr
 20 25 30
 Ile Lys Ile Leu Lys Gln Ser Trp Gln Thr Lys Thr Ser Thr Ser Val
 35 40 45
 His Asp Cys Ile Ile Thr Ile Ile Val Pro Leu His Ile Met Phe Phe
 50 55 60
 Phe Leu Arg Gln Lys Arg Cys Leu Lys Thr Lys Asn Cys Ala Glu Lys

65 70 75 80
 Val Cys Pro Thr Tyr Leu Trp Tyr Met Ile Gly Tyr Ile Lys Gly Arg
 85 90 95
 Tyr Trp Leu Asn
 100

<210> 2482

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2482

Met Ile Leu Ser Leu Phe Tyr Val Leu Leu Cys His Leu Asp Ile Leu
 1 5 10 15
 Phe Gly Asp Thr Ser Ser Lys Ile Phe Cys Ser Phe Trp Ala Val Val
 20 25 30
 Thr Leu Val Leu Ser Phe Asp Ser Pro Phe Tyr Ile Leu Asp Thr Ser
 35 40 45
 Phe Ile Arg Tyr Pro Phe Cys Lys Ala Cys Asn Leu Ser Phe Tyr Phe
 50 55 60
 Phe Asn Ser Ile Phe Gln Lys Gln Lys Phe Ser Met Leu Met Lys Leu
 65 70 75 80
 Ser Leu Ser Ser Phe Ser Phe Met Tyr Cys Val Phe Gly Ile Val Ser
 85 90 95
 Lys Thr Ser Leu Pro Glu Met Arg Ser Cys Met Val
 100 105

<210> 2483

<211> 205

<212> PRT

<213> Homo sapiens

<400> 2483

Met Met Ser Ser Ser Thr Ala His Trp His Gln Trp Ser Val Ile Val

1	5	10	15
Ser Asn Arg Gly Ala Trp Gln Gly Lys Ala Phe Leu Pro Pro Ser Met			
20	25	30	
Pro Val Ser Glu Gly Leu Asn Ile Gln Asp Ser Ser Pro Gly Trp Gly			
35	40	45	
Pro Glu Pro Trp Tyr Trp Thr Leu Thr Arg Thr Pro Met Cys Gln Ser			
50	55	60	
Thr Ser His His Ala His Thr Gln Gly Leu Gly Leu Ser Lys Cys Pro			
65	70	75	80
Ala Ala Pro Glu Val Ser Ser Pro Asp Leu Gly Ser Gly Ser Ala Ala			
85	90	95	
Asp Lys Ser Pro Ala Ser Arg Pro Ala Trp Thr Lys Pro Glu Leu Phe			
100	105	110	
Arg Ser Leu Lys Arg Leu Leu His Ser Pro Thr Pro Arg Thr Asp Gln			
115	120	125	
Arg Gly Arg Gly Cys Arg Trp Arg Glu Arg Arg Val Glu Ser Gly Ala			
130	135	140	
Arg Gly Trp Lys Arg Leu Cys Arg Leu Cys Cys Pro Cys Arg Trp Ser			
145	150	155	160
Trp Phe Thr Leu Ser Pro Ala Phe Pro Pro Pro Glu Thr Ala His His			
165	170	175	
Cys Gln Ile Glu Ser Lys Asn Pro Thr Pro Asn Lys Asp Glu Ala Thr			
180	185	190	
Leu Ala Phe Thr Pro Arg Phe Phe Arg Phe Leu Gly Leu			
195	200	205	

<210> 2484

<211> 259

<212> PRT

<213> Homo sapiens

<400> 2484

Met Lys Asp Leu Gly Asn Pro Val Leu Asp Glu Glu Gly Val Ala Gln
1 5 10 15
Arg Glu Glu Ser Ala Gln Gly Thr Pro Ile Leu Gly Asp Gly Ala Thr

	20		25		30
Gly	Ala	Ser	Pro	Arg	Leu
	35		40		45
Arg	Ser	Gly	Arg	Arg	Ile
	50		55		60
Pro	Thr	Ile	Ala	Ala	Leu
	65		70		75
Ala	Pro	Ser	Gly	Pro	Leu
	85		90		95
Ala	Ile	Met	Leu	Arg	Asp
	100		105		110
Gly	Leu	Ser	Ala	Ile	Asp
	115		120		125
Asp	Gly	Lys	Thr	Pro	Val
	130		135		140
Thr	Gln	Ser	Tyr	Asp	Tyr
	145		150		155
Glu	Ser	Ser	Thr	Ser	Glu
	165		170		175
Leu	Val	Thr	Asp	Glu	Asp
	180		185		190
Gln	Lys	Phe	Arg	Ile	Val
	195		200		205
Val	Arg	Leu	Arg	Glu	Ser
	210		215		220
Arg	Leu	Gln	Leu	Gln	Leu
	225		230		235
Lys	Arg	Glu	Leu	Glu	Gly
	245		250		255
Asp	Pro	Gln			

<210> 2485

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2485

Met His Gly Ser Lys Trp Leu Asp Ser Trp Val Gly Trp Gly Ser Gln
 1 5 10 15
 Ser Arg Leu Pro Glu Gly Leu Glu Val Thr Pro Pro Gly Gly Asp Gly
 20 25 30
 Ser Ser Gln Val Gly Cys His Gln Ser Arg Gln His Cys Leu Leu Gly
 35 40 45
 Thr Pro Gly Glu Ala Asp Arg Val Ser Gly Phe Gln Leu Gly Gly Ser
 50 55 60
 Pro Ala Glu Asn Pro Val Lys Pro Ala Phe His Ser Ser Pro Val Cys
 65 70 75 80
 Pro Glu Pro Gly Leu Arg Ala Ala Leu Cys Met Pro Ala Leu Pro Thr
 85 90 95
 Trp Gln Ser Ser Gly Gly Arg Thr Pro Arg Leu Ser Gly Asp Ser Gln
 100 105 110
 Ala Asn Val Ser Ile Pro Gly Ser Ala Leu Ser Cys His Glu Phe Arg
 115 120 125
 Lys Ala Glu Ala Ala Gln Gln Met Gly Thr Arg Gly Arg Thr Ala Ile
 130 135 140
 His Ser Leu Ser Ser His Pro Gln Ala Cys Arg Ala Pro Gly Leu Trp
 145 150 155 160
 Cys

<210> 2486

<211> 423

<212> PRT

<213> Homo sapiens

<400> 2486

Met Lys Arg Asn Gly Ser Arg Asn Cys Leu Asn Arg Arg Ser Arg Phe

1	5	10	15
Gly Ser Arg Glu Arg Asp Trp Leu Arg Glu Asp Val Lys Arg Gly Cys			
20	25	30	
Val Tyr Leu Tyr Gly Ala Asp Thr Thr Thr Ala Thr Thr Thr Thr Thr			
35	40	45	
Thr Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Asp Leu His Leu			
50	55	60	
Val Leu Cys Thr Val Glu Thr Pro Ala Ser Glu Ile Cys Ala Gly Glu			
65	70	75	80
Gly Arg Glu Ser Leu Tyr Leu Gln Leu His Gly Asp Leu Val Arg Arg			
85	90	95	
Leu Glu Pro Thr Glu Arg Pro Leu Gln Ile Val Tyr Asp Tyr Leu Ser			
100	105	110	
Arg Leu Gly Phe Asp Asp Pro Val Arg Ile Gln Glu Glu Ala Thr Asn			
115	120	125	
Pro Asp Leu Gly Cys Met Ile Arg Phe Tyr Gly Glu Lys Pro Cys His			
130	135	140	
Met Asp Arg Leu Asp Arg Ile Leu Leu Ser Gly Ile Tyr Asn Val Arg			
145	150	155	160
Lys Gly Lys Thr Gln Leu His Lys Trp Ala Glu Arg Leu Val Val Leu			
165	170	175	
Cys Gly Thr Cys Leu Ile Val Ser Ser Val Lys Asp Cys Gln Thr Gly			
180	185	190	
Lys Met His Ile Leu Pro Leu Val Gly Gly Lys Ile Glu Glu Val Lys			
195	200	205	
Arg Arg Gln Tyr Ser Leu Ala Phe Ser Ser Ala Gly Ala Gln Ala Gln			
210	215	220	
Thr Tyr His Val Ser Phe Glu Thr Leu Ala Glu Tyr Gln Arg Trp Gln			
225	230	235	240
Arg Gln Ala Ser Lys Val Val Ser Gln Arg Ile Ser Thr Val Asp Leu			
245	250	255	
Ser Cys Tyr Ser Leu Glu Glu Val Pro Glu His Leu Phe Tyr Ser Gln			
260	265	270	
Asp Ile Thr Tyr Leu Asn Leu Arg His Asn Phe Met Gln Leu Glu Arg			
275	280	285	
Pro Gly Gly Leu Asp Thr Leu Tyr Lys Phe Ser Gln Leu Lys Gly Leu			

290 295 300
 Asn Leu Ser His Asn Lys Leu Gly Leu Phe Pro Ile Leu Leu Cys Glu
 305 310 315 320
 Ile Ser Thr Leu Thr Glu Leu Asn Leu Ser Cys Asn Gly Phe His Asp
 325 330 335
 Leu Pro Ser Gln Ile Gly Asn Leu Leu Asn Leu Gln Thr Leu Cys Leu
 340 345 350
 Asp Gly Asn Phe Leu Thr Thr Leu Pro Glu Glu Leu Gly Asn Leu Gln
 355 360 365
 Gln Leu Ser Ser Leu Gly Ile Ser Phe Asn Asn Phe Ser Gln Ile Pro
 370 375 380
 Glu Val Tyr Glu Lys Leu Thr Met Leu Asp Arg Val Val Met Ala Gly
 385 390 395 400
 Asn Cys Leu Glu Val Leu Asn Leu Gly Val Leu Asn Arg Met Asn His
 405 410 415
 Ile Lys His Val Asp Leu Arg
 420

<210> 2487

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2487

Met Lys Ser Tyr Pro Ser Cys His Trp Trp Ile Met Phe Leu Val Ser
 1 5 10 15
 Cys Leu Gly Thr Leu Thr Pro Gly His Glu Glu Phe Phe Phe Phe Leu
 20 25 30
 Phe Leu Thr His Ile Leu Thr Leu Ser Pro Arg Leu Gly Cys Ser Gly
 35 40 45
 Thr Ile Ser Thr His Cys Asn Leu Cys Leu Leu Gly Ser Ser Asp Ser
 50 55 60
 Cys Ala Ser Val Ser Gln Val Ala Gly Thr Thr Gly Val His His His
 65 70 75 80

Ser Gln Pro Ile Phe Phe Leu Phe Phe Ile Phe Ser Arg Val Gly Ile
85 90 95
Ser Pro Tyr Arg Leu Gly Trp Ser
100

<210> 2488
<211> 879
<212> PRT
<213> Homo sapiens

<400> 2488																
Met	Asn	Pro	Ile	Thr	Gln	Ser	Gln	Phe	Val	Pro	Leu	Gly	Glu	Val	Leu	
1				5				10						15		
Cys	Cys	Ala	Ile	Ser	Asp	Met	Asn	Thr	Ala	Gln	Ile	Val	Val	Thr	Gln	
			20					25						30		
Glu	Ser	Leu	Leu	Glu	Arg	Leu	Met	Lys	His	Tyr	Pro	Gly	Ile	Ala	Ile	
			35				40						45			
Pro	Ser	Glu	Asp	Ile	Leu	Tyr	Thr	Thr	Leu	Gly	Thr	Leu	Ile	Lys	Glu	
	50					55					60					
Arg	Lys	Ile	Tyr	His	Thr	Gly	Glu	Gly	Tyr	Phe	Ile	Val	Thr	Pro	Gln	
65					70					75					80	
Thr	Tyr	Phe	Ile	Thr	Asn	Thr	Thr	Thr	Gln	Glu	Asn	Lys	Arg	Met	Leu	
				85					90					95		
Pro	Ser	Asp	Glu	Ser	Arg	Leu	Met	Pro	Ala	Ser	Met	Thr	Tyr	Leu	Val	
			100					105					110			
Ser	Met	Glu	Ser	Cys	Ala	Glu	Ser	Ala	Gln	Glu	Asn	Ala	Ala	Pro	Ile	
			115					120				125				
Ser	His	Cys	Gln	Ser	Cys	Gln	Cys	Phe	Arg	Asp	Met	His	Thr	Gln	Asp	
	130					135					140					
Val	Gln	Glu	Ala	Pro	Val	Ala	Ala	Glu	Val	Thr	Arg	Lys	Ser	His	Arg	
145					150					155					160	
Gly	Leu	Gly	Glu	Ser	Val	Ser	Trp	Val	Gln	Asn	Gly	Ala	Val	Ser	Val	
				165					170					175		
Ser	Ala	Glu	His	His	Ile	Cys	Glu	Ser	Thr	Lys	Pro	Leu	Pro	Tyr	Thr	
			180					185						190		

Arg Asp Lys Glu Lys Gly Lys Lys Phe Gly Phe Ser Leu Leu Trp Arg
 195 200 205
 Ser Leu Ser Arg Lys Glu Lys Pro Lys Thr Glu His Ser Ser Phe Ser
 210 215 220
 Ala Gln Phe Pro Pro Glu Glu Trp Pro Val Arg Asp Glu Asp Asp Leu
 225 230 235 240
 Asp Asn Ile Pro Arg Asp Val Glu His Glu Ile Ile Lys Arg Ile Asn
 245 250 255
 Pro Ile Leu Thr Val Asp Asn Leu Ile Lys His Thr Val Leu Met Gln
 260 265 270
 Lys Tyr Glu Glu Gln Lys Lys Tyr Asn Ser Gln Gly Thr Ser Thr Asp
 275 280 285
 Met Leu Thr Ile Gly His Lys Tyr Pro Ser Lys Glu Gly Val Lys Lys
 290 295 300
 Arg Gln Gly Leu Ser Ala Lys Pro Gln Gly Gln Gly His Ser Arg Arg
 305 310 315 320
 Asp Arg His Lys Ala Arg Asn Gln Gly Ser Glu Phe Gln Pro Gly Ser
 325 330 335
 Ile Arg Leu Glu Lys His Pro Lys Leu Pro Ala Thr Gln Pro Ile Pro
 340 345 350
 Arg Ile Lys Ser Pro Asn Glu Met Val Gly Gln Lys Pro Leu Gly Glu
 355 360 365
 Ile Thr Thr Val Leu Gly Ser His Leu Ile Tyr Lys Lys Arg Ile Ser
 370 375 380
 Asn Pro Phe Gln Gly Leu Ser His Arg Gly Ser Thr Ile Ser Lys Gly
 385 390 395 400
 His Lys Ile Gln Lys Thr Ser Asp Leu Lys Pro Ser Gln Thr Gly Pro
 405 410 415
 Lys Glu Lys Pro Phe Gln Lys Pro Arg Ser Leu Asp Ser Ser Arg Ile
 420 425 430
 Phe Asp Gly Lys Ala Lys Glu Pro Tyr Ala Glu Gln Pro Asn Asp Lys
 435 440 445
 Met Glu Ala Glu Ser Ile Tyr Ile Asn Asp Pro Thr Val Lys Pro Ile
 450 455 460
 Asn Asp Asp Phe Arg Gly His Leu Phe Ser His Pro Gln Gln Ser Met
 465 470 475 480

Leu	Gln	Asn	Asp	Gly	Lys	Cys	Cys	Pro	Phe	Met	Glu	Ser	Met	Leu	Arg
				485					490					495	
Tyr	Asp	Val	Tyr	Gly	Gly	Glu	Asn	Glu	Val	Ile	Pro	Glu	Val	Leu	Arg
				500					505					510	
Lys	Ser	His	Ser	His	Phe	Asp	Lys	Leu	Gly	Glu	Thr	Lys	Gln	Thr	Pro
				515					520					525	
His	Ser	Leu	Pro	Ser	Arg	Gly	Ala	Ser	Phe	Ser	Asp	Arg	Thr	Pro	Ser
				530					535					540	
Ala	Cys	Arg	Leu	Val	Asp	Asn	Thr	Ile	His	Gln	Phe	Gln	Asn	Leu	Gly
				545					550					555	
Leu	Leu	Asp	Tyr	Pro	Val	Gly	Val	Asn	Pro	Leu	Arg	Gln	Ala	Ala	Arg
				565					570					575	
Gln	Asp	Lys	Asp	Ser	Glu	Glu	Leu	Leu	Arg	Lys	Gly	Phe	Val	Gln	Asp
				580					585					590	
Ala	Glu	Thr	Thr	Ser	Leu	Glu	Asn	Glu	Gln	Leu	Ser	Asn	Asp	Asp	Gln
				595					600					605	
Ala	Leu	Tyr	Gln	Asn	Glu	Val	Glu	Asp	Asp	Asp	Gly	Ala	Cys	Ser	Ser
				610					615					620	
Leu	Tyr	Leu	Glu	Glu	Asp	Asp	Ile	Ser	Glu	Asn	Asp	Asp	Leu	Arg	Gln
				625					630					635	
Met	Leu	Pro	Gly	His	Ser	Gln	Tyr	Ser	Phe	Thr	Gly	Gly	Ser	Gln	Gly
				645					650					655	
Asn	His	Leu	Gly	Lys	Gln	Lys	Val	Ile	Glu	Arg	Ser	Leu	Thr	Glu	Tyr
				660					665					670	
Asn	Ser	Thr	Met	Glu	Arg	Val	Glu	Ser	Gln	Val	Leu	Lys	Arg	Asn	Glu
				675					680					685	
Cys	Tyr	Lys	Pro	Thr	Gly	Leu	His	Ala	Thr	Pro	Gly	Glu	Ser	Gln	Glu
				690					695					700	
Pro	Asn	Leu	Ser	Ala	Glu	Ser	Cys	Gly	Leu	Asn	Ser	Gly	Ala	Gln	Phe
				705					710					715	
Gly	Phe	Asn	Tyr	Glu	Glu	Glu	Pro	Ser	Val	Ala	Lys	Cys	Val	Gln	Ala
				725					730					735	
Ser	Ala	Pro	Ala	Asp	Glu	Arg	Ile	Phe	Asp	Tyr	Tyr	Ser	Ala	Arg	Lys
				740					745					750	
Ala	Ser	Phe	Glu	Ala	Glu	Val	Ile	Gln	Asp	Thr	Ile	Gly	Asp	Thr	Gly
				755					760					765	

Lys Lys Pro Ala Ser Trp Ser Gln Ser Pro Gln Asn Gln Glu Met Arg
 770 775 780
 Lys His Phe Pro Gln Lys Phe Gln Leu Phe Asn Thr Ser His Met Pro
 785 790 795 800
 Val Leu Ala Gln Asp Val Gln Tyr Glu His Ser His Leu Glu Gly Thr
 805 810 815
 Glu Asn His Ser Met Ala Gly Asp Ser Gly Ile Asp Ser Pro Arg Thr
 820 825 830
 Gln Ser Leu Gly Ser Asn Asn Ser Val Ile Leu Asp Gly Leu Lys Arg
 835 840 845
 Arg Gln Asn Phe Leu Gln Asn Val Glu Gly Thr Lys Ser Ser Gln Pro
 850 855 860
 Leu Thr Ser Asn Ser Leu Leu Pro Leu Thr Pro Val Ile Asn Val
 865 870 875

<210> 2489

<211> 636

<212> PRT

<213> Homo sapiens

<400> 2489

Met Phe Arg Lys Lys Lys Lys Lys Arg Pro Glu Ile Ser Ala Pro Gln
 1 5 10 15
 Asn Phe Gln His Arg Val His Thr Ser Phe Asp Pro Lys Glu Gly Lys
 20 25 30
 Phe Val Gly Leu Pro Pro Gln Trp Gln Asn Ile Leu Asp Thr Leu Arg
 35 40 45
 Arg Pro Lys Pro Val Val Asp Pro Ser Arg Ile Ala Arg Val Gln Leu
 50 55 60
 Gln Pro Met Lys Thr Val Val Arg Gly Ser Ala Met Pro Val Asp Gly
 65 70 75 80
 Tyr Ile Ser Gly Leu Leu Asn Asp Ile Gln Lys Leu Ser Val Ile Ser
 85 90 95
 Ser Asn Thr Leu Arg Gly Arg Ser Pro Thr Ser Arg Arg Arg Ala Gln
 100 105 110

Ser Leu Gly Leu Leu Gly Asp Glu His Trp Ala Thr Asp Pro Asp Met
 115 120 125
 Tyr Leu Gln Ser Pro Gln Ser Glu Arg Thr Asp Pro His Gly Leu Tyr
 130 135 140
 Leu Ser Cys Asn Gly Gly Thr Pro Ala Gly His Lys Gln Met Pro Trp
 145 150 155 160
 Pro Glu Pro Gln Ser Pro Arg Val Leu Pro Asn Gly Leu Ala Ala Lys
 165 170 175
 Ala Gln Ser Leu Gly Pro Ala Glu Phe Gln Gly Ala Ser Gln Arg Cys
 180 185 190
 Leu Gln Leu Gly Ala Cys Leu Gln Ser Ser Pro Pro Gly Ala Ser Pro
 195 200 205
 Pro Thr Gly Thr Asn Arg His Gly Met Lys Ala Ala Lys His Gly Ser
 210 215 220
 Glu Glu Ala Arg Pro Gln Ser Cys Leu Val Gly Ser Ala Thr Gly Arg
 225 230 235 240
 Pro Gly Gly Glu Gly Ser Pro Ser Pro Lys Thr Arg Glu Ser Ser Leu
 245 250 255
 Lys Arg Arg Leu Phe Arg Ser Met Phe Leu Ser Thr Ala Ala Thr Ala
 260 265 270
 Pro Pro Ser Ser Ser Lys Pro Gly Pro Pro Pro Gln Ser Lys Pro Asn
 275 280 285
 Ser Ser Phe Arg Pro Pro Gln Lys Asp Asn Pro Pro Ser Leu Val Ala
 290 295 300
 Lys Ala Gln Ser Leu Pro Ser Asp Gln Pro Val Gly Thr Phe Ser Pro
 305 310 315 320
 Leu Thr Thr Ser Asp Thr Ser Ser Pro Gln Lys Ser Leu Arg Thr Ala
 325 330 335
 Pro Ala Thr Gly Gln Leu Pro Gly Arg Ser Ser Pro Ala Gly Ser Pro
 340 345 350
 Arg Thr Trp His Ala Gln Ile Ser Thr Ser Asn Leu Tyr Leu Pro Gln
 355 360 365
 Asp Pro Thr Val Ala Lys Gly Ala Leu Ala Gly Glu Gly Thr Gly Val
 370 375 380
 Val Thr His Glu Gln Phe Lys Ala Ala Leu Arg Met Val Val Asp Gln

385	390	395	400
Gly Asp Pro Arg Leu Leu Leu Asp Ser Tyr Val Lys Ile Gly Glu Gly			
	405	410	415
Ser Thr Gly Ile Val Cys Leu Ala Arg Glu Lys His Ser Gly Arg Gln			
	420	425	430
Val Ala Val Lys Met Met Asp Leu Arg Lys Gln Gln Arg Arg Glu Leu			
	435	440	445
Leu Phe Asn Glu Val Val Ile Met Arg Asp Tyr Gln His Phe Asn Val			
	450	455	460
Val Glu Met Tyr Lys Ser Tyr Leu Val Gly Glu Glu Leu Trp Val Leu			
465	470	475	480
Met Glu Phe Leu Gln Gly Gly Ala Leu Thr Asp Ile Val Ser Gln Val			
	485	490	495
Arg Leu Asn Glu Glu Gln Ile Ala Thr Val Cys Glu Ala Val Leu Gln			
	500	505	510
Ala Leu Ala Tyr Leu His Ala Gln Gly Val Ile His Arg Asp Ile Lys			
	515	520	525
Ser Asp Ser Ile Leu Leu Thr Leu Asp Gly Arg Val Lys Leu Ser Asp			
	530	535	540
Phe Gly Phe Cys Ala Gln Ile Ser Lys Asp Val Pro Lys Arg Lys Ser			
545	550	555	560
Leu Val Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Ser Arg Ser			
	565	570	575
Leu Tyr Ala Thr Glu Val Ser Pro Val Leu Arg Asp Phe Leu Glu Arg			
	580	585	590
Met Leu Val Arg Asp Pro Gln Glu Arg Ala Thr Ala Gln Glu Leu Leu			
	595	600	605
Asp His Pro Phe Leu Leu Gln Thr Gly Leu Pro Glu Cys Leu Val Pro			
	610	615	620
Leu Ile Gln Leu Tyr Arg Lys Gln Thr Ser Thr Cys			
625	630	635	

<210> 2490

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2490

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Met His Ala Asp Glu Tyr Ala Ser Trp Val Phe Thr Arg Ser Ser Trp
 1             5             10             15
Glu Ala Ser Ser Val Ser Gln Ala His Arg Leu Cys Ala Arg Glu Gly
      20             25             30
Glu His Leu Ser Leu Gly Thr Ala Phe Val Pro Ala Tyr Arg Pro Pro
      35             40             45
Gln Glu Pro Ala Ser Trp Leu Pro Ser His Arg Pro Pro Ala Gly Leu
      50             55             60
Thr Tyr Ala Ser Phe Cys Arg Arg Gln Ala His Phe Ser Pro Val Thr
      65             70             75             80
Asn Met Glu Leu Arg Val Lys Glu Gly Ser Cys Thr His Leu Leu Ile
      85             90             95
His Leu Phe Thr His Leu Leu Thr His Gln Ser Phe Leu Gln Gln
      100            105            110

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<210> 2491

<211> 370

<212> PRT

<213> Homo sapiens

<400> 2491

```

Met Leu Ala Pro Gly Ser Ser Pro Gly Gln Arg Gly Arg Leu Ala Leu
 1             5             10             15
Gln Trp Arg Gln Val Ser Trp Ile Thr Cys Trp Ile Ala Leu Tyr Ala
      20             25             30
Val Glu Ala Leu Pro Thr Cys Pro Phe Ser Cys Lys Cys Asp Ser Arg
      35             40             45
Ser Leu Glu Val Asp Cys Ser Gly Leu Gly Leu Thr Thr Val Pro Pro
      50             55             60
Asp Val Pro Ala Ala Thr Arg Thr Leu Leu Leu Leu Asn Asn Lys Leu
      65             70             75             80
Ser Ala Leu Pro Ser Trp Ala Phe Ala Asn Leu Ser Ser Leu Gln Arg

```

	85		90		95
Leu Asp Leu Ser Asn Asn Phe Leu Asp Arg Leu Pro Arg Ser Ile Phe					
	100		105		110
Gly Asp Leu Thr Asn Leu Thr Glu Leu Gln Leu Arg Asn Asn Ser Ile					
	115		120		125
Arg Thr Leu Asp Arg Asp Leu Leu Arg His Ser Pro Leu Leu Arg His					
	130		135		140
Leu Asp Leu Ser Ile Asn Gly Leu Ala Gln Leu Pro Pro Gly Leu Phe					
145		150		155	160
Asp Gly Leu Leu Ala Leu Arg Ser Leu Ser Leu Arg Ser Asn Arg Leu					
	165		170		175
Gln Asn Leu Asp Arg Leu Thr Phe Glu Pro Leu Ala Asn Leu Gln Leu					
	180		185		190
Leu Gln Val Gly Asp Asn Pro Trp Glu Cys Asp Cys Asn Leu Arg Glu					
	195		200		205
Phe Lys His Trp Met Glu Trp Phe Ser Tyr Arg Gly Gly Arg Leu Asp					
	210		215		220
Gln Leu Ala Cys Thr Leu Pro Lys Glu Leu Arg Gly Lys Asp Met Arg					
225		230		235	240
Met Val Pro Met Glu Met Phe Asn Tyr Cys Ser Gln Leu Glu Asp Glu					
	245		250		255
Asn Ser Ser Ala Gly Leu Asp Ile Pro Gly Pro Pro Cys Thr Lys Ala					
	260		265		270
Ser Pro Glu Pro Ala Lys Pro Lys Pro Gly Ala Glu Pro Glu Pro Glu					
	275		280		285
Pro Ser Thr Ala Cys Pro Gln Lys Gln Arg His Arg Pro Ala Ser Val					
	290		295		300
Arg Arg Ala Met Gly Thr Val Ile Ile Ala Gly Val Val Cys Gly Val					
305		310		315	320
Val Cys Ile Met Met Val Val Ala Ala Ala Tyr Gly Cys Ile Tyr Ala					
	325		330		335
Ser Leu Met Ala Lys Tyr His Arg Glu Leu Lys Lys Arg Gln Pro Leu					
	340		345		350
Met Gly Asp Pro Glu Gly Glu His Glu Asp Gln Lys Gln Ile Ser Ser					
	355		360		365
Val Ala					

370

<210> 2492

<211> 158

<212> PRT

<213> Homo sapiens

<400> 2492

```

Met Glu Lys Gly Leu Arg Arg Thr Gln Gln Cys Gly Ser Ala Thr Ala
  1              5              10              15
Gly Asn His Glu Thr Glu Thr Ala Arg Trp Arg Gln Pro Asp Thr Lys
              20              25              30
Leu Gly Thr Gln Thr Pro Arg Phe Pro Pro Trp Pro His Pro Trp Ala
              35              40              45
Lys Ser Asn Ser Glu Pro Ser Ser Ser Ser Ile Ser Phe Asn Pro His
              50              55              60
Arg Gly Cys Leu Leu Phe Thr Ala Val Glu Val Arg Val Gly Val Gly
  65              70              75              80
Gly Met Leu Phe Ser Cys Arg Leu Ser Ser Trp Asp Glu Glu Thr Ser
              85              90              95
Ser Leu Leu Gly Leu Ala Gly Pro Ala Lys Gln Met His Thr Leu Thr
              100             105             110
Thr Ala Gln Gly Leu Arg Gln Val Cys Ser Leu Ser Lys Thr Cys Pro
              115             120             125
Gly Phe Ser Lys Gly Lys Ser Ile Arg Lys Arg Met Glu Asn Leu Tyr
              130             135             140
Ser Phe Ile Leu Leu Pro Ser Asn Gly His Ser Pro Met Tyr
  145             150             155

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<210> 2493

<211> 156

<212> PRT

<213> Homo sapiens

<400> 2493

Met Ala Asp Val Pro His Pro Thr Lys Leu Glu His Pro Arg Ser Thr
 1 5 10 15
 Ser Asp Cys Cys Pro Ser Ser Glu Asn Phe Lys Pro Val Asp Phe Arg
 20 25 30
 Leu Leu Gly Ser Val Gly Val Gly Pro Thr Asp Pro Asp His Leu Ala
 35 40 45
 Pro Trp Leu Gln Pro Pro Phe Gln Glu Ser Glu Arg Phe Cys His Thr
 50 55 60
 Gly Ile Pro Gly Ala Thr Gly Val Leu Arg Lys Lys Gln Lys Gln Lys
 65 70 75 80
 Leu Leu Gln Leu Ala Gln Cys Leu Pro Lys Gln Pro Pro Cys Phe Val
 85 90 95
 Leu Glu Thr Gln Asn His Gly Gly Ile Asp Thr Trp Ser Trp Ser Ala
 100 105 110
 Ser Cys Lys Asp Arg Gly Lys Ser Thr Val Ser Glu Pro Glu Cys Thr
 115 120 125
 Val Pro Pro Gly Thr Leu Ser His Ser Phe Pro Trp Leu Gly Lys Gly
 130 135 140
 Asp Pro Pro Thr Pro Cys Thr Ser Gln Val Arg Arg
 145 150 155

<210> 2494

<211> 919

<212> PRT

<213> Homo sapiens

<400> 2494

Met Ala Pro Ser Arg Phe Arg Thr Gln Leu Glu Leu Val Ser Asn Val
 1 5 10 15
 Leu Ile Phe Ser Cys Thr Asn Ile Val Gly Val Cys Thr His Tyr Pro
 20 25 30
 Ala Glu Val Ser Gln Arg Gln Ala Phe Gln Glu Thr Arg Glu Cys Ile
 35 40 45

Gln Ala Arg Leu His Ser Gln Arg Glu Asn Gln Gln Gln Glu Arg Leu
 50 55 60
 Leu Leu Ser Val Leu Pro Arg His Val Ala Met Glu Met Lys Ala Asp
 65 70 75 80
 Ile Asn Ala Lys Gln Glu Asp Met Met Phe His Lys Ile Tyr Ile Gln
 85 90 95
 Lys His Asp Asn Val Ser Ile Leu Phe Ala Asp Ile Glu Gly Phe Thr
 100 105 110
 Ser Leu Ala Ser Gln Cys Thr Ala Gln Glu Leu Val Met Thr Leu Asn
 115 120 125
 Glu Leu Phe Ala Arg Phe Asp Lys Leu Ala Ala Glu Asn His Cys Leu
 130 135 140
 Arg Ile Lys Ile Leu Gly Asp Cys Tyr Tyr Cys Val Ser Gly Leu Pro
 145 150 155 160
 Glu Ala Arg Ala Asp His Ala His Cys Cys Val Glu Met Gly Met Asp
 165 170 175
 Met Ile Glu Ala Ile Ser Leu Val Arg Glu Val Thr Gly Val Asn Val
 180 185 190
 Asn Met Arg Val Gly Ile His Ser Gly Arg Val His Cys Gly Val Leu
 195 200 205
 Gly Leu Arg Lys Trp Gln Phe Asp Val Trp Ser Asn Asp Val Thr Leu
 210 215 220
 Ala Asn His Met Glu Ala Gly Gly Lys Ala Gly Arg Ile His Ile Thr
 225 230 235 240
 Lys Ala Thr Leu Asn Tyr Leu Asn Gly Asp Tyr Glu Val Glu Pro Gly
 245 250 255
 Cys Gly Gly Glu Arg Asn Ala Tyr Leu Lys Glu His Ser Ile Glu Thr
 260 265 270
 Phe Leu Ile Leu Arg Cys Thr Gln Lys Arg Lys Glu Glu Lys Ala Met
 275 280 285
 Ile Ala Lys Met Asn Arg Gln Arg Thr Asn Ser Ile Gly His Asn Pro
 290 295 300
 Pro His Trp Gly Ala Glu Arg Pro Phe Tyr Asn His Leu Gly Gly Asn
 305 310 315 320
 Gln Val Ser Lys Glu Met Lys Arg Met Gly Phe Glu Asp Pro Lys Asp
 325 330 335

Lys Asn Ala Gln Glu Ser Ala Asn Pro Glu Asp Glu Val Asp Glu Phe
 340 345 350
 Leu Gly Arg Ala Ile Asp Ala Arg Ser Ile Asp Arg Leu Arg Ser Glu
 355 360 365
 His Val Arg Lys Phe Leu Leu Thr Phe Arg Glu Pro Asp Leu Glu Lys
 370 375 380
 Lys Tyr Ser Lys Gln Val Asp Asp Arg Phe Gly Ala Tyr Val Ala Cys
 385 390 395 400
 Ala Ser Leu Val Phe Leu Phe Ile Cys Phe Val Gln Ile Thr Ile Val
 405 410 415
 Pro His Ser Ile Phe Met Leu Ser Phe Tyr Leu Thr Cys Ser Leu Leu
 420 425 430
 Leu Thr Leu Val Val Phe Val Ser Val Ile Tyr Ser Cys Val Lys Leu
 435 440 445
 Phe Pro Ser Pro Leu Gln Thr Leu Ser Arg Lys Ile Val Arg Ser Lys
 450 455 460
 Met Asn Ser Thr Leu Val Gly Val Phe Thr Ile Thr Leu Val Phe Leu
 465 470 475 480
 Ala Ala Phe Val Asn Met Phe Thr Cys Asn Ser Arg Asp Leu Leu Gly
 485 490 495
 Cys Leu Ala Gln Glu His Asn Ile Ser Ala Ser Gln Val Asn Ala Cys
 500 505 510
 His Val Ala Glu Ser Ala Val Asn Tyr Ser Leu Gly Asp Glu Gln Gly
 515 520 525
 Phe Cys Gly Ser Pro Trp Pro Asn Cys Asn Phe Pro Glu Tyr Phe Thr
 530 535 540
 Tyr Ser Val Leu Leu Ser Leu Leu Ala Cys Ser Val Phe Leu Gln Ile
 545 550 555 560
 Ser Cys Ile Gly Lys Leu Val Leu Met Leu Ala Ile Glu Leu Ile Tyr
 565 570 575
 Val Leu Ile Val Glu Val Pro Gly Val Thr Leu Phe Asp Asn Ala Asp
 580 585 590
 Leu Leu Val Thr Ala Asn Ala Ile Asp Phe Phe Asn Asn Gly Thr Ser
 595 600 605
 Gln Trp Ser Leu Cys Glu Asn Leu Arg His Arg Arg Met Glu Ala Gly
 610 615 620

Thr Tyr Phe Pro Ser Gly Val Lys Glu Gln Ser Pro Glu His Ala Thr
 625 630 635 640
 Lys Val Ala Leu Lys Val Val Thr Pro Ile Ile Ile Ser Val Phe Val
 645 650 655
 Leu Ala Leu Tyr Leu His Ala Gln Gln Val Glu Ser Thr Ala Arg Leu
 660 665 670
 Asp Phe Leu Trp Lys Leu Gln Ala Thr Glu Glu Lys Glu Glu Met Glu
 675 680 685
 Glu Leu Gln Ala Tyr Asn Arg Arg Leu Leu His Asn Ile Leu Pro Lys
 690 695 700
 Asp Val Ala Ala His Phe Leu Ala Arg Glu Arg Arg Asn Asp Glu Leu
 705 710 715 720
 Tyr Tyr Gln Ser Cys Glu Cys Val Ala Val Met Phe Ala Ser Ile Ala
 725 730 735
 Asn Phe Ser Glu Phe Tyr Val Glu Leu Glu Ala Asn Asn Glu Gly Val
 740 745 750
 Glu Cys Leu Arg Leu Leu Asn Glu Ile Ile Ala Asp Phe Asp Glu Ile
 755 760 765
 Ile Ser Glu Asp Arg Phe Arg Gln Leu Glu Lys Ile Lys Thr Ile Gly
 770 775 780
 Ser Thr Tyr Met Ala Ala Ser Gly Leu Asn Asp Ser Thr Tyr Asp Lys
 785 790 795 800
 Val Gly Lys Thr His Ile Lys Ala Leu Ala Asp Phe Ala Met Lys Leu
 805 810 815
 Met Asp Gln Met Lys Tyr Ile Asn Glu His Ser Phe Asn Asn Phe Gln
 820 825 830
 Met Lys Ile Gly Leu Asn Ile Gly Pro Val Val Ala Gly Val Ile Gly
 835 840 845
 Ala Arg Lys Pro Gln Tyr Asp Ile Trp Gly Asn Thr Val Asn Val Ala
 850 855 860
 Ser Arg Met Asp Ser Thr Gly Val Pro Asp Arg Ile Gln Val Thr Thr
 865 870 875 880
 Asp Met Tyr Gln Val Leu Ala Ala Asn Thr Tyr Gln Leu Glu Cys Arg
 885 890 895
 Gly Val Val Lys Val Lys Gly Lys Gly Glu Met Met Thr Tyr Phe Leu
 900 905 910

Asn Gly Gly Pro Pro Leu Ser
915

<210> 2495

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2495

Met	Gly	Tyr	Val	Arg	Glu	Tyr	Ile	Leu	Trp	Ala	Ala	Ser	Lys	Ser	Gln
1				5				10					15		
Leu	Leu	Ala	His	Gln	Phe	Ile	Trp	Asn	Met	Lys	Thr	Asn	Ile	Tyr	Leu
			20					25					30		
Asp	Glu	Glu	Gly	His	Gln	Lys	Asp	Pro	Asp	Ile	Gly	Asp	Leu	Leu	Asp
		35					40					45			
Gln	Leu	Val	Glu	Glu	Ile	Thr	Gly	Ser	Leu	Ser	Gly	Pro	Ala	Lys	Asp
	50					55					60				
Phe	Tyr	Gln	Arg	Glu	Phe	Asp	Phe	Phe	Asn	Lys	Ile	Thr	Asn	Val	Ser
65				70					75					80	
Ala	Ile	Ile	Lys	Pro	Tyr	Pro	Lys	Gly	Asp	Glu	Arg	Lys	Lys	Ala	Cys
			85					90						95	
Leu	Ser	Ala	Leu	Ser	Glu	Val	Lys	Val	Gln	Pro	Gly	Cys	Tyr	Leu	Pro
		100						105					110		
Ser	Asn	Pro	Glu	Ala	Ile	Val	Leu	Asp	Ile	Asp	Tyr	Lys	Ser	Gly	Thr
		115					120					125			
Pro	Met	Gln	Ser	Ala	Ala	Lys	Ala	Pro	Tyr	Leu	Ala	Lys	Phe	Lys	Val
	130					135				140					
Lys	Arg	Cys	Gly	Val	Ser	Glu	Leu	Glu	Lys	Glu	Gly	Leu	Arg	Cys	Arg
145				150					155					160	
Ser	Asp	Ser	Glu	Asp	Glu	Cys	Ser	Thr	Gln	Glu	Ala	Asp	Gly	Gln	Lys
			165					170					175		
Ile	Ser	Trp	Gln	Ala	Ala	Ile	Phe	Lys	Val	Gly	Asp	Asp	Cys	Arg	Gln
		180						185					190		
Val	Ser	Arg	Val	Arg	Pro	Arg	Val	Gly	Leu	Gly	Thr	Gly	Leu	Ala	Ala
		195					200						205		

Pro Gln Gly Ser Arg Pro Ala Arg Val Gln Ser His Met Gln Lys Cys
 210 215 220
 Glu Ser Phe Pro Ser Leu Ile Trp Phe Arg Cys His Gly Val Asn
 225 230 235

<210> 2496
 <211> 206
 <212> PRT
 <213> Homo sapiens

<400> 2496
 Met Pro Pro Ala Leu Ser Ser Arg Ser Cys Thr Glu Leu Gly Ala Thr
 1 5 10 15
 Ser Cys Thr Glu Thr Ser Arg Val Ala Arg Ser Cys Thr Thr Gln Ser
 20 25 30
 Ala Leu Ala Ala Arg Met Trp Ser Ala Thr Cys Trp Thr Thr Pro Pro
 35 40 45
 Gln Arg Ser Leu Met Arg Trp Arg Lys Ser Lys Tyr Leu Gly Ser Ala
 50 55 60
 Glu Pro Trp Ser Pro Arg Lys Pro Pro Phe Ser Pro Pro Leu Pro Phe
 65 70 75 80
 Cys Gln Val Arg Ala His Lys Leu Pro Gly His Ile Cys His Pro Leu
 85 90 95
 Gly His Pro Tyr Cys Pro Arg Ala Leu Asn Phe Leu Pro Phe Leu Met
 100 105 110
 Ala Leu Gly Arg Gln Met Gly Gly Ser Gly Asp Gly Met Gly Tyr Thr
 115 120 125
 Ala Ser Pro Cys Ser Pro Ser Gly Glu Thr Cys Leu His Gln Ala Ala
 130 135 140
 Ala Leu Gly Gln Arg Thr Ile Cys His Tyr Ile Val Glu Ala Gly Ala
 145 150 155 160
 Ser Leu Met Lys Thr Asp Gln Gln Gly Asp Thr Pro Arg Gln Arg Ala
 165 170 175
 Glu Lys Ala Gln Asp Thr Glu Leu Ala Ala Tyr Leu Glu Asn Arg Gln

180	185	190
His Tyr Gln Met Ile Gln Arg Glu Asp Gln Glu Thr Ala Val		
195	200	205

<210> 2497

<211> 126

<212> PRT

<213> Homo sapiens

<400> 2497

Met Leu Pro Thr Lys Glu Gly Ser Gln Ser Gly Tyr Asn Gln Trp Leu			
1	5	10	15
Pro Phe Asp Glu Arg Ala Gln Glu Leu Arg Trp Glu Ala Trp Ser Thr			
20	25	30	
Lys Phe His Leu Lys Ala Glu Arg Glu Glu Phe Lys Val Gln Ile Asp			
35	40	45	
Leu Arg Glu Cys Gln Ala Tyr Ser Ser Pro Met Glu Ser Pro Gln Pro			
50	55	60	
Val Val Met Gly Glu Ala Pro Gln Ile Val Val Trp Cys Leu Gln Ala			
65	70	75	80
Pro Gly Leu Cys His Pro Asp Leu Ser Ile Gly Val His Leu Leu Val			
85	90	95	
Thr Lys Tyr Lys Ser Arg Asp Trp Asp Gly Arg Gly Glu Pro Asn Arg			
100	105	110	
Ser Ser Phe Arg Ser Ala Glu Ala Ala Ala Phe Ala Ser Gln			
115	120	125	

<210> 2498

<211> 393

<212> PRT

<213> Homo sapiens

<400> 2498

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro

1	5	10	15
Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys			
20	25	30	
Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg			
35	40	45	
Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His			
50	55	60	
Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp			
65	70	75	80
Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr			
85	90	95	
Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln			
100	105	110	
Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp			
115	120	125	
Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu			
130	135	140	
His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe			
145	150	155	160
Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr			
165	170	175	
Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu			
180	185	190	
Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met			
195	200	205	
Leu Thr His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu			
210	215	220	
Leu Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met			
225	230	235	240
Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly Phe			
245	250	255	
Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro Asn			
260	265	270	
Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro Lys			
275	280	285	
Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly Met			

290	295	300
Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala Arg		
305	310	315
Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp Ser		320
	325	330
Gln Val Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly Arg		335
	340	345
His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu Glu		350
	355	360
Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly Gln		365
	370	375
Gly Leu Asp Tyr Phe Tyr Asp Leu Leu		380
385	390	

<210> 2499

<211> 333

<212> PRT

<213> Homo sapiens

<400> 2499

Met Met Ser Pro Ser Lys Leu Leu Ile Ser Arg Gly Ser Ala Leu Thr		
1	5	10
Gln Val Trp Leu Thr Ala Ala Ile Leu Gly Gln Val Gly Ala Glu Gln		15
	20	25
Ser Ala Trp Lys Gly Asp Leu Tyr Gly Arg Gln Leu Trp Glu Gly Trp		30
	35	40
Cys Trp Cys Trp Ser Ser Gln Ala Pro Tyr Ser Leu Leu Met Pro Phe		45
	50	55
Ser Arg Leu Pro Gly Asp Leu Val Lys His His Ile Asp Ile Ile Leu		60
65	70	75
Asn Gln Arg Asn Tyr Met Ala Ala Thr Leu Lys Ile Ile Glu Arg Asn		80
	85	90
Phe Pro Glu Leu Leu Ser Leu Asn Leu Cys Asp Asn Lys Leu Tyr His		95
	100	105
Leu Asp Gly Leu Pro Asp Ile Ile Glu Lys Ala Pro Lys Val Lys Thr		110

115	120	125	
Leu Asn Leu Ser Lys Asn Lys Leu Lys Ser Ala Trp Glu Leu Gly Lys			
130	135	140	
Val Lys Gly Leu Lys Leu Glu Glu Leu Trp Leu Glu Gly Asn Ser Leu			
145	150	155	160
Cys Ser Thr Phe Ser Asp Gln Ser Ala Tyr Val Ser Ile Ile Arg Glu			
165	170	175	
Tyr Phe Pro Lys Leu Leu Cys Leu Asp Gly Gln Glu Leu Ala Ser Pro			
180	185	190	
Ile Ile Ile Gly Ile Glu Ala Pro Glu Ile Ile Lys Pro Cys Lys Glu			
195	200	205	
Ser Tyr Lys Gly Ser Glu Thr Ile Lys Ser Leu Val Leu Gln Phe Leu			
210	215	220	
Leu Gln Tyr Tyr Leu Ile Tyr Asp Ser Glu Asp Arg Thr Gly Leu Leu			
225	230	235	240
Ser Val Tyr His Asp Lys Ala Cys Phe Ser Leu Thr Ile Thr Leu Asn			
245	250	255	
Pro Glu Asp Pro Glu Pro Ser Ser Leu Glu Lys Tyr Phe Lys Asp Ser			
260	265	270	
Arg Asn Ile Lys Asn Ile Lys Asp Pro Cys Leu Arg Ile Gln Leu Leu			
275	280	285	
Lys His Thr Lys Arg Glu Ile Val Asp Ser Leu Ser Val Leu Pro Arg			
290	295	300	
Thr Gln His Asp Leu Asn Ser Tyr Val Val Asp Leu Cys Ile Gln Thr			
305	310	315	320
Val Ser Thr Cys Phe Leu Pro Gln Ser Gly Pro Glu Ser			
325	330		

<210> 2500

<211> 294

<212> PRT

<213> Homo sapiens

<400> 2500

Met Ser Leu Gly Gly His Pro Asn Asn Val Val Ser Val Lys Tyr Cys
 1 5 10 15
 Asn Tyr Thr Ser Leu Val Phe Thr Val Ser Thr Ser Tyr Ile Lys Val
 20 25 30
 Trp Asp Ile Arg Asp Ser Ala Lys Cys Ile Arg Thr Leu Thr Ser Ser
 35 40 45
 Gly Gln Val Thr Leu Gly Asp Ala Cys Ser Ala Ser Thr Ser Arg Thr
 50 55 60
 Val Ala Ile Pro Ser Gly Glu Asn Gln Ile Asn Gln Ile Ala Leu Asn
 65 70 75 80
 Pro Thr Gly Thr Phe Leu Tyr Ala Ala Ser Gly Asn Ala Val Arg Met
 85 90 95
 Trp Asp Leu Lys Arg Phe Gln Ser Thr Gly Lys Leu Thr Gly His Leu
 100 105 110
 Gly Pro Val Met Cys Leu Thr Val Asp Gln Ile Ser Ser Gly Gln Asp
 115 120 125
 Leu Ile Ile Thr Gly Ser Lys Asp His Tyr Ile Lys Met Phe Asp Val
 130 135 140
 Thr Glu Gly Ala Leu Gly Thr Val Ser Pro Thr His Asn Phe Glu Pro
 145 150 155 160
 Pro His Tyr Asp Gly Ile Glu Ala Leu Thr Ile Gln Gly Asp Asn Leu
 165 170 175
 Phe Ser Gly Ser Arg Asp Asn Gly Ile Lys Lys Trp Asp Leu Thr Gln
 180 185 190
 Lys Asp Leu Leu Gln Gln Val Pro Asn Ala His Lys Asp Trp Val Cys
 195 200 205
 Ala Leu Gly Val Val Pro Asp His Pro Val Leu Leu Ser Gly Cys Arg
 210 215 220
 Gly Gly Ile Leu Lys Val Trp Asn Met Asp Thr Phe Met Pro Val Gly
 225 230 235 240
 Glu Met Lys Gly His Asp Ser Pro Ile Asn Ala Ile Cys Val Asn Ser
 245 250 255
 Thr His Ile Phe Thr Ala Ala Asp Asp Arg Thr Val Arg Ile Trp Lys
 260 265 270
 Ala Arg Asn Leu Gln Asp Gly Gln Ile Ser Asp Thr Gly Asp Leu Gly
 275 280 285

Glu Asp Ile Ala Ser Asn

290

<210> 2501

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2501

Met Ile Thr Ala Ile Leu Leu Gly Phe Leu Gly Leu Leu Leu Gly Ile
 1 5 10 15
 Ala Gly Leu Arg Cys Thr Asn Ile Gly Gly Leu Glu Leu Ser Arg Lys
 20 25 30
 Ala Lys Leu Ala Ala Thr Ala Gly Ala Leu His Ile Leu Ala Gly Asn
 35 40 45
 Trp Gly Lys Val Met Gly Arg Gly Ser Pro Ser Thr Ala Asp Phe Arg
 50 55 60
 Leu Leu Cys Pro His Leu Ile Ser Ser Pro Ile Pro Thr Pro His Ala
 65 70 75 80
 His Leu Pro Tyr Pro Ala Ala Trp Thr Pro Ala His Pro Cys Leu Ile
 85 90 95
 Cys Thr Pro Gln Ile Ser Trp Leu Gln Ile Ser Pro Ser Ala Val Phe
 100 105 110
 Leu Glu Leu Pro Val Gly Ala Gly His Gly Gln Val Trp Glu Gly Leu
 115 120 125
 Arg Arg
 130

<210> 2502

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2502

Met Asp Ser Gln Phe His Met Ala Gly Glu Thr Ser Gln Ser Trp Gln
 1 5 10 15
 Lys Ala Lys Ile Arg Ser Tyr Thr Ala Ala Asp Glu Arg Ala Cys Val
 20 25 30
 Gly Glu Leu Pro Ser Ile Gln Pro Ser Asp Leu Met Arg Leu Ile His
 35 40 45
 Tyr His Lys Asn Asn Thr Val Leu Met Ile Gln Leu Pro Pro Pro Arg
 50 55 60
 Phe Leu Pro Gln Tyr Val Gly Ile Met Gly Thr Thr Ile Arg Asp Leu
 65 70 75 80
 Gly Glu Asp Thr Ala Lys Pro Tyr Gln Ser His Asn Lys Asp Gln Arg
 85 90 95
 Pro Ser Leu Pro
 100

<210> 2503

<211> 159

<212> PRT

<213> Homo sapiens

<400> 2503

Met Asn Gly Gly Thr Ser Leu His Gln Lys Cys Gln Leu Lys Pro Arg
 1 5 10 15
 Gly Ser Phe Phe Ser Val Ala Leu Arg Glu Arg Pro Arg Glu Ser His
 20 25 30
 Gly Val Phe Pro Phe Gln Phe Arg Ser Thr Pro Arg Ala Val Thr Val
 35 40 45
 Ser Pro Pro Phe Leu Pro Gly Glu Lys Lys Val Leu Gly Val Pro Ser
 50 55 60
 Ala Gly Gln Arg Lys Asn Ser Pro Phe Phe Ala Pro Val Pro Lys Gly
 65 70 75 80
 Ser Phe Cys Phe His Phe His Leu Ser His Gly Arg Arg Pro Ala Gly
 85 90 95
 Val Gln Phe Ala Asp Pro Thr Ser Pro Met Met Pro Asn Ser Ile Leu
 100 105 110

Thr Val Ser His Val Ala Leu Ser Val Leu Gly Thr Gly Glu Ser Leu
 115 120 125
 Trp Ala Met Ile Leu Gly Trp Thr Gly Val Pro Trp Ala Pro Leu Pro
 130 135 140
 Pro Ser Phe Pro Gln Ser Met Thr Arg Gln Pro Phe Pro Val Thr
 145 150 155

<210> 2504

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2504

Met His Val Thr Val Gln Thr Gln Leu His Ser Gly Lys Glu Pro Ala
 1 5 10 15
 Ser Phe Leu Leu Leu Ser Cys Cys Ala Gln Glu Val Ala Ser Val Phe
 20 25 30
 Glu Ser Asn Val Ala Ala Leu Ala Pro Ala Ile Ile Ser Ile Leu Gln
 35 40 45
 Gln Val Ala Ser Gly Lys Lys Lys Gly Arg Ala Tyr Ala Phe His Phe
 50 55 60
 Arg Asp Thr Trp Pro Ser Ala Ala His Ile Thr Leu Leu Thr Leu Cys
 65 70 75 80
 Trp Asp Gln Ser Leu Val Thr Trp Gln Gln Ile Ala Val Arg Asn Ile
 85 90 95
 Gly Lys Gly Cys Leu Trp Leu Leu Gly Leu Met Thr Ile Gly Asn Cys
 100 105 110
 Cys Thr Thr Lys Gly Gly Phe
 115

<210> 2505

<211> 583

<212> PRT

<213> Homo sapiens

<400> 2505

Met Leu Ala Ile Gly Ser Leu Asp His Ala His Ile Val Arg Leu Leu
 1 5 10 15
 Gly Leu Cys Pro Gly Ser Ser Leu Gln Leu Val Thr Gln Tyr Leu Pro
 20 25 30
 Leu Gly Ser Leu Leu Asp His Val Arg Gln His Arg Gly Ala Leu Gly
 35 40 45
 Pro Gln Leu Leu Leu Asn Trp Gly Val Gln Ile Ala Lys Gly Met Tyr
 50 55 60
 Tyr Leu Glu Glu His Gly Met Val His Arg Asn Leu Ala Ala Arg Asn
 65 70 75 80
 Val Leu Leu Lys Ser Pro Ser Gln Val Gln Val Ala Asp Phe Gly Val
 85 90 95
 Ala Asp Leu Leu Pro Pro Asp Asp Lys Gln Leu Leu Tyr Ser Glu Ala
 100 105 110
 Lys Thr Pro Ile Lys Trp Met Ala Leu Glu Ser Ile His Phe Gly Lys
 115 120 125
 Tyr Thr His Gln Ser Asp Val Trp Ser Tyr Gly Val Thr Val Trp Glu
 130 135 140
 Leu Met Thr Phe Gly Ala Glu Pro Tyr Ala Gly Leu Arg Leu Ala Glu
 145 150 155 160
 Val Pro Asp Leu Leu Glu Lys Gly Glu Arg Leu Ala Gln Pro Gln Ile
 165 170 175
 Cys Thr Ile Asp Val Tyr Met Val Met Val Lys Cys Trp Met Ile Asp
 180 185 190
 Glu Asn Ile Arg Pro Thr Phe Lys Glu Leu Ala Asn Glu Phe Thr Arg
 195 200 205
 Met Ala Arg Asp Pro Pro Arg Tyr Leu Val Ile Lys Arg Glu Ser Gly
 210 215 220
 Pro Gly Ile Ala Pro Gly Pro Glu Pro His Gly Leu Thr Asn Lys Lys
 225 230 235 240
 Leu Glu Glu Val Glu Leu Glu Pro Glu Leu Asp Leu Asp Leu Asp Leu
 245 250 255
 Glu Ala Glu Glu Asp Asn Leu Ala Thr Thr Thr Leu Gly Ser Ala Leu
 260 265 270

Ser Leu Pro Val Gly Thr Leu Asn Arg Pro Arg Gly Ser Gln Ser Leu
 275 280 285
 Leu Ser Pro Ser Ser Gly Tyr Met Pro Met Asn Gln Gly Asn Leu Gly
 290 295 300
 Glu Ser Cys Gln Glu Ser Ala Val Ser Gly Ser Ser Glu Arg Cys Pro
 305 310 315 320
 Arg Pro Val Ser Leu His Pro Met Pro Arg Gly Cys Leu Ala Ser Glu
 325 330 335
 Ser Ser Glu Gly His Val Thr Gly Ser Glu Ala Glu Leu Gln Glu Lys
 340 345 350
 Val Ser Met Cys Arg Ser Arg Ser Arg Ser Arg Ser Pro Arg Pro Arg
 355 360 365
 Gly Asp Ser Ala Tyr His Ser Gln Arg His Ser Leu Leu Thr Pro Val
 370 375 380
 Thr Pro Leu Ser Pro Pro Gly Leu Glu Glu Glu Asp Val Asn Gly Tyr
 385 390 395 400
 Val Met Pro Asp Thr His Leu Lys Gly Thr Pro Ser Ser Arg Glu Gly
 405 410 415
 Thr Leu Ser Ser Val Gly Leu Ser Ser Val Leu Gly Thr Glu Glu Glu
 420 425 430
 Asp Glu Asp Glu Glu Tyr Glu Tyr Met Asn Arg Arg Arg Arg His Ser
 435 440 445
 Pro Pro His Pro Pro Arg Pro Ser Ser Leu Glu Glu Leu Gly Tyr Glu
 450 455 460
 Tyr Met Asp Val Gly Ser Asp Leu Ser Ala Ser Leu Gly Ser Thr Gln
 465 470 475 480
 Ser Cys Pro Leu His Pro Val Pro Ile Met Pro Thr Ala Gly Thr Thr
 485 490 495
 Pro Asp Glu Asp Tyr Glu Tyr Met Asn Arg Gln Arg Asp Gly Gly Gly
 500 505 510
 Pro Gly Gly Asp Tyr Ala Ala Met Gly Ala Cys Pro Ala Ser Glu Gln
 515 520 525
 Gly Tyr Glu Glu Met Arg Ala Phe Gln Gly Pro Gly His Gln Ala Pro
 530 535 540
 His Val His Tyr Ala Arg Leu Lys Thr Leu Arg Ser Leu Glu Ala Thr
 545 550 555 560

Asp Ser Ala Phe Asp Asn Pro Asp Tyr Trp His Ser Arg Leu Phe Pro
 565 570 575
 Lys Ala Asn Ala Gln Gly Thr
 580

<210> 2506

<211> 247

<212> PRT

<213> Homo sapiens

<400> 2506

Met Lys Arg Leu Leu Thr Thr Gly Val Ser Arg Trp Asn Thr Arg Gln
 1 5 10 15
 Ile Ala Leu Trp Asp Gln Glu Asp Leu Ser Met Pro Leu Ile Glu Glu
 20 25 30
 Glu Ile Asp Gly Leu Ser Gly Leu Leu Phe Pro Phe Tyr Asp Ala Asp
 35 40 45
 Thr His Met Leu Tyr Leu Ala Gly Lys Gly Asp Gly Asn Ile Arg Tyr
 50 55 60
 Tyr Glu Ile Ser Thr Glu Lys Pro Tyr Leu Ser Tyr Leu Met Glu Phe
 65 70 75 80
 Arg Ser Pro Ala Pro Gln Lys Gly Leu Gly Val Met Pro Lys His Gly
 85 90 95
 Leu Asp Val Ser Ala Cys Glu Val Phe Arg Phe Tyr Lys Leu Val Thr
 100 105 110
 Leu Lys Gly Leu Ile Glu Pro Ile Ser Met Ile Val Pro Arg Arg Ser
 115 120 125
 Asp Ser Tyr Gln Glu Asp Ile Tyr Pro Met Thr Pro Gly Thr Glu Pro
 130 135 140
 Ala Leu Thr Pro Asp Glu Trp Leu Gly Gly Ile Asn Arg Asp Pro Val
 145 150 155 160
 Leu Met Ser Leu Lys Glu Gly Tyr Lys Lys Ser Ser Lys Met Val Phe
 165 170 175
 Lys Ala Pro Ile Lys Glu Lys Lys Ser Val Val Val Asn Gly Ile Asp
 180 185 190

Leu Leu Glu Asn Val Pro Pro Arg Thr Glu Asn Glu Leu Leu Arg Met
 195 200 205
 Phe Phe Arg Gln Gln Asp Glu Ile Arg Arg Leu Lys Glu Glu Leu Ala
 210 215 220
 Gln Lys Asp Ile Arg Ile Arg Gln Leu Gln Leu Glu Leu Lys Asn Leu
 225 230 235 240
 Arg Asn Ser Pro Lys Asn Cys
 245

<210> 2507

<211> 345

<212> PRT

<213> Homo sapiens

<400> 2507

Met Ala Pro Val Ser Trp Ile Thr Pro Gly Leu Lys Thr Thr Ala Val

 1 5 10 15
 Cys Arg Gly Val Leu Arg Gly Val Thr Phe Leu Leu Arg Arg Glu Gly
 20 25 30
 Asp His Glu Phe Leu Glu Val Pro Glu Ala Gln Glu Asp Val Glu Ala
 35 40 45
 Thr Phe Pro Val His Gln Pro Gly Asn Tyr Ser Cys Ser Tyr Arg Thr
 50 55 60
 Asp Gly Glu Gly Ala Leu Ser Glu Pro Ser Ala Thr Val Thr Ile Glu
 65 70 75 80
 Glu Leu Ala Ala Pro Pro Pro Pro Val Leu Met His His Gly Glu Ser
 85 90 95
 Ser Gln Val Leu His Pro Gly Asn Lys Val Thr Leu Thr Cys Val Ala
 100 105 110
 Pro Leu Ser Gly Val Asp Phe Gln Leu Arg Arg Gly Glu Lys Glu Leu
 115 120 125
 Leu Val Pro Arg Ser Ser Thr Ser Pro Asp Arg Ile Phe Phe His Leu
 130 135 140
 Asn Ala Val Ala Leu Gly Asp Gly Gly His Tyr Thr Cys Arg Tyr Arg

145 150 155 160
 Leu His Asp Asn Gln Asn Gly Trp Ser Gly Asp Ser Ala Pro Val Glu
 165 170 175
 Leu Ile Leu Ser Asp Glu Thr Leu Pro Ala Pro Glu Phe Ser Pro Glu
 180 185 190
 Pro Glu Ser Gly Arg Ala Leu Arg Leu Arg Cys Leu Ala Pro Leu Glu
 195 200 205
 Gly Ala Arg Phe Ala Leu Val Arg Glu Asp Arg Gly Gly Arg Arg Val
 210 215 220
 His Arg Phe Gln Ser Pro Ala Gly Thr Glu Ala Leu Phe Glu Leu His
 225 230 235 240
 Asn Ile Ser Val Ala Asp Ser Ala Asn Tyr Ser Cys Val Tyr Val Asp
 245 250 255
 Leu Lys Pro Pro Phe Gly Gly Ser Ala Pro Ser Glu Arg Leu Glu Leu
 260 265 270
 His Val Asp Gly Glu Leu Ala Gly His Gln Arg Gly Arg Ala Arg Val
 275 280 285
 Gln Cys Pro Ser Gly Pro Pro Val Phe Pro Leu Phe Pro Trp Ala Ser
 290 295 300
 Asp Gly Gly Ala Leu Gly Leu Gly Ser Ala Pro Ile Ala Tyr Pro Gly
 305 310 315 320
 Gly Glu Gln Ala Ile Gly Gly Arg Gly Ser Gly Asp Ala Trp Asn Phe
 325 330 335
 Gly Leu Phe Pro Thr Asp Ala Ser Pro
 340 345

<210> 2508

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2508

Met Arg Thr Gly Ile Phe Val Phe Leu Thr Lys Cys Cys Ile Ser Gln
 1 5 10 15
 Asp His Pro Gly Pro Pro Cys Pro Ile Leu Cys Leu Lys Lys Pro Trp

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          20          25          30
Asp Pro Ser Arg Gln Thr His Arg Arg Leu Asp Val Glu Arg Ser Thr
          35          40          45
Ser Val Gln Glu His Met Gly Gly Cys His Phe Ser Pro Phe Pro Glu
          50          55          60
Arg Glu Lys Leu Ser Thr Leu Arg Gly Ile His Gln Gln Ala Pro Ala
          65          70          75          80
Leu Trp Gln Ala Thr Asp Gln Trp Ile Asp Ile Glu Phe Gly Trp Gly
          85          90          95
Ser Gln Arg Arg Ala Trp Ala Ala Glu
          100          105

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<210> 2509

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2509

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Met Arg Trp Arg Gln Arg Ser Phe Leu Leu Arg Leu Phe Leu Gly Ser
  1          5          10          15
Leu Arg Gly Gly Gln His His Pro Pro Leu Thr Leu Pro Ser Ala Ser
          20          25          30
Ser Leu Pro Phe Ser Thr Leu Ser Leu Leu Ala Ser Ser Leu Ser
          35          40          45
Cys Cys Leu Val Ser Pro Cys Pro Lys Thr Pro Gly Ser Phe Val Leu
          50          55          60
Leu Pro Trp Pro Pro Pro Arg Arg Arg Ser Gln Ala Pro Ser Pro Arg
          65          70          75          80
Arg Gly Ile His Thr Thr Gly Ser Cys Trp Gly Trp Gly Ser Pro Ala
          85          90          95
Gly Phe Leu Met Pro Cys Ala Gln Gly Val Ala Ala Val Ile Phe Gly
          100          105          110
Leu Ser

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<210> 2510

<211> 243

<212> PRT

<213> Homo sapiens

<400> 2510

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Met Gln Phe Arg Leu Phe Ser Phe Ala Leu Ile Ile Leu Asn Cys Met
  1             5             10             15
Asp Tyr Ser His Cys Gln Gly Asn Arg Trp Arg Arg Ser Lys Arg Ala
      20             25             30
Ser Tyr Val Ser Asn Pro Ile Cys Lys Gly Cys Leu Ser Cys Ser Lys
      35             40             45
Asp Asn Gly Cys Ser Arg Cys Gln Gln Lys Leu Phe Phe Phe Leu Arg
      50             55             60
Arg Glu Gly Met Arg Gln Tyr Gly Glu Cys Leu His Ser Cys Pro Ser
      65             70             75             80
Gly Tyr Tyr Gly His Arg Ala Pro Asp Met Asn Arg Cys Ala Arg Cys
      85             90             95
Arg Ile Glu Asn Cys Asp Ser Cys Phe Ser Lys Asp Phe Cys Thr Lys
      100            105            110
Cys Lys Val Gly Phe Tyr Leu His Arg Gly Arg Cys Phe Asp Glu Cys
      115            120            125
Pro Asp Gly Phe Ala Pro Leu Glu Glu Thr Met Glu Cys Val Glu Gly
      130            135            140
Cys Glu Val Gly His Trp Ser Glu Trp Gly Thr Cys Ser Arg Asn Asn
      145            150            155            160
Arg Thr Cys Gly Phe Lys Trp Gly Leu Glu Thr Arg Thr Arg Gln Ile
      165            170            175
Val Lys Lys Pro Val Lys Asp Thr Ile Pro Cys Pro Thr Ile Ala Glu
      180            185            190
Ser Arg Arg Cys Lys Met Thr Met Arg His Cys Pro Gly Gly Lys Arg
      195            200            205
Thr Pro Lys Ala Lys Glu Lys Arg Asn Lys Lys Lys Lys Arg Lys Leu
      210            215            220
Ile Glu Arg Ala Gln Glu Gln His Ser Val Phe Leu Ala Thr Asp Arg

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225	230	235	240
Ala Asn Gln			

<210> 2511
<211> 144
<212> PRT
<213> Homo sapiens

<400> 2511															
Met	Cys	Gly	Trp	Ala	Ala	Tyr	Leu	Met	Arg	Glu	Pro	Pro	Pro	Lys	Pro
1				5					10					15	
Glu	Pro	Ser	Ser	Leu	Cys	Gly	Gln	His	Pro	Gly	Arg	Pro	Gly	Gly	Ala
			20					25						30	
Ala	Ser	Pro	Ala	Pro	Thr	Pro	Ser	Ala	Trp	Cys	Trp	Pro	Val	Ala	Pro
			35					40						45	
Glu	Pro	Leu	Thr	Ser	Pro	Val	Arg	Gly	Leu	Gly	Pro	Ser	Pro	Gly	Pro
		50					55					60			
Trp	Trp	Gln	Leu	Pro	Val	Ala	Gln	Ala	Ala	Cys	Pro	Ala	Pro	Arg	Val
65					70					75					80
Glu	Val	Glu	Leu	Arg	Gly	Leu	Leu	Leu	Gln	Gly	Ala	Glu	Gly	Gln	Arg
				85						90				95	
Pro	Gly	Phe	Gly	Tyr	Gly	Gly	Arg	Ala	Ser	Asp	Tyr	Lys	Ser	Ala	His
			100						105					110	
Lys	Gly	Phe	Lys	Gly	Val	Asp	Ala	Gln	Gly	Thr	Leu	Ser	Lys	Ile	Phe
			115						120				125		
Lys	Leu	Gly	Gly	Arg	Asp	Ser	Arg	Ser	Gly	Ser	Pro	Met	Ala	Arg	Arg
			130				135						140		

<210> 2512
<211> 172
<212> PRT
<213> Homo sapiens

<400> 2512

Met Pro Arg Ala Ser Cys Cys His Cys Leu Cys Gly Pro Glu Ser Trp
 1 5 10 15
 Thr Cys Pro Ser Asp Ser Gly Val Ala Ala Trp Ala Gly Ser Val Thr
 20 25 30
 Leu Gly Cys Tyr Thr Phe Trp Glu Leu Asp Arg Ser Gly Cys Leu Gly
 35 40 45
 Gly Leu Trp His Pro Gly Met Leu Tyr Ile Leu Gly Ala Gly Gln Glu
 50 55 60
 Trp Leu Leu Gly Trp Ala Leu Ala Pro Trp Asp Val Ile His Ser Gly
 65 70 75 80
 Asn Cys Asn Gln Pro Leu Glu Lys Ser Glu Leu Gln Glu Val Thr Leu
 85 90 95
 Gly Trp Asp Leu Gly Thr Trp Pro Gly Gln His Gly Asp Thr Arg Leu
 100 105 110
 Gln Gln Glu Leu Trp Ser Val Leu Gly Ser Leu Gly Ala Gly Leu Arg
 115 120 125
 Pro Trp Ala Gly Phe Leu Gln Ala Glu Val Leu Gly Lys Trp Gly Ser
 130 135 140
 Gln Ala Ser Cys Arg Leu Pro His Tyr Val Ala Ser Asp Ser Ser Ser
 145 150 155 160
 Leu Met Lys Ala Ile Trp Phe Ile Thr Leu Lys Leu
 165 170

<210> 2513

<211> 678

<212> PRT

<213> Homo sapiens

<400> 2513

Met Val Arg Ala Gly Gly Arg Ala Trp Gln Gln Gly Leu His Ser Leu
 1 5 10 15
 Ser Ala Val Ser Ile Leu Ala Lys Gly Phe Met Phe Leu Leu Val Gly
 20 25 30
 Asp Ser Arg Ala Glu Ser Val Thr Asn Thr Leu Val Leu Phe Thr Ile

35	40	45	
Gly Glu Glu Ser Leu Thr Ile Phe Val Asp Lys Gln Lys Leu Gly Arg			
50	55	60	
Lys Thr Glu Thr Thr Gly Gly Ala Ser Ile Ile Gly Gly Ser Gly Asn			
65	70	75	80
Ser Thr Ala Val Ser Leu Glu Thr Leu His Gln Leu Ala Ala Ser Tyr			
85	90	95	
Phe Ile Asp Arg Glu Ser Thr Leu Arg Arg Leu His His Ile Gln Ile			
100	105	110	
Ala Thr Gly Ala Ile Lys Val Thr Glu Thr Arg Thr Gly Pro Leu Gly			
115	120	125	
Cys Ser Asn Tyr Asp Asn Leu Asp Ser Val Ser Ser Val Leu Val Gln			
130	135	140	
Ser Pro Glu Asn Lys Val Gln Leu Leu Gly Leu Gln Val Leu Leu Pro			
145	150	155	160
Glu Tyr Leu Arg Glu Arg Phe Val Ala Ala Ala Leu Ser Tyr Ile Thr			
165	170	175	
Cys Ser Ser Glu Gly Glu Leu Val Cys Lys Glu Asn Asp Cys Trp Cys			
180	185	190	
Lys Cys Ser Pro Thr Phe Pro Glu Cys Asn Cys Pro Asp Ala Asp Ile			
195	200	205	
Gln Ala Met Glu Asp Ser Leu Leu Gln Ile Gln Asp Ser Trp Ala Thr			
210	215	220	
His Asn Arg Gln Phe Glu Glu Ser Glu Glu Phe Gln Ala Leu Leu Lys			
225	230	235	240
Arg Leu Pro Asp Asp Arg Phe Leu Asn Ser Thr Ala Ile Ser Gln Phe			
245	250	255	
Trp Ala Met Asp Thr Ser Leu Gln His Arg Tyr Gln Gln Leu Gly Ala			
260	265	270	
Gly Leu Lys Val Leu Phe Lys Lys Thr His Arg Ile Leu Arg Arg Leu			
275	280	285	
Phe Asn Leu Cys Lys Arg Cys His Arg Gln Pro Arg Phe Arg Leu Pro			
290	295	300	
Lys Glu Arg Ser Leu Ser Tyr Trp Trp Asn Arg Ile Gln Ser Leu Leu			
305	310	315	320

Tyr Cys Gly Glu Ser Thr Phe Pro Gly Thr Phe Leu Glu Gln Ser His
 325 330 335
 Ser Cys Thr Cys Pro Tyr Asp Gln Ser Ser Cys Gln Gly Pro Ile Pro
 340 345 350
 Cys Ala Leu Gly Glu Gly Pro Ala Cys Ala His Cys Ala Pro Asp Asn
 355 360 365
 Ser Thr Arg Cys Gly Ser Cys Asn Pro Gly Tyr Val Leu Ala Gln Gly
 370 375 380
 Leu Cys Arg Pro Glu Val Ala Glu Ser Leu Glu Asn Phe Leu Gly Leu
 385 390 395 400
 Glu Thr Asp Leu Gln Asp Leu Glu Leu Lys Tyr Leu Leu Gln Lys Gln
 405 410 415
 Asp Ser Arg Ile Glu Val His Ser Ile Phe Ile Ser Asn Asp Met Arg
 420 425 430
 Leu Gly Ser Trp Phe Asp Pro Ser Trp Arg Lys Arg Met Leu Leu Thr
 435 440 445
 Leu Lys Ser Asn Lys Tyr Lys Pro Gly Leu Val His Val Met Leu Ala
 450 455 460
 Leu Ser Leu Gln Ile Cys Leu Thr Lys Asn Ser Thr Leu Glu Pro Val
 465 470 475 480
 Met Ala Ile Tyr Val Asn Pro Phe Gly Gly Ser His Ser Glu Ser Trp
 485 490 495
 Phe Met Pro Val Asn Glu Gly Ser Phe Pro Asp Trp Glu Arg Thr Asn
 500 505 510
 Val Asp Ala Ala Ala Gln Cys Gln Asn Trp Thr Ile Thr Leu Gly Asn
 515 520 525
 Arg Trp Lys Thr Phe Phe Glu Thr Val His Val Tyr Leu Arg Ser Arg
 530 535 540
 Ile Lys Ser Leu Asp Asp Ser Ser Asn Glu Thr Ile Tyr Tyr Glu Pro
 545 550 555 560
 Leu Glu Met Thr Asp Pro Ser Lys Asn Leu Gly Tyr Met Lys Ile Asn
 565 570 575
 Thr Leu Gln Val Phe Gly Tyr Ser Leu Pro Phe Asp Pro Asp Ala Ile
 580 585 590
 Arg Asp Leu Ile Leu Gln Leu Asp Tyr Pro Tyr Thr Gln Gly Ser Gln
 595 600 605

Asp Ser Ala Leu Leu Gln Leu Ile Glu Leu Arg Asp Arg Val Asn Gln
 610 615 620
 Leu Ser Pro Pro Gly Lys Val Arg Leu Asp Leu Phe Ser Cys Leu Leu
 625 630 635 640
 Arg His Arg Leu Lys Leu Ala Asn Asn Glu Val Gly Arg Ile Gln Ser
 645 650 655
 Ser Leu Arg Ala Phe Asn Ser Lys Leu Pro Asn Pro Val Glu Tyr Glu
 660 665 670
 Thr Gly Lys Leu Cys Ser
 675

<210> 2514

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2514

Met Leu Arg Asn Pro Gly Ser Gln Gly Pro Ala Ala Ala Gly Arg Gly
 1 5 10 15
 Ala Val Gln Glu Ala Gly Leu Gly Met Ser Thr Gly Leu Arg Leu Ala
 20 25 30
 Glu Ser Arg Val Glu Pro Ala Leu Glu Lys Gln Ala Gln Leu Glu Glu
 35 40 45
 Gln Leu Arg Asp Lys Val Leu His Glu Lys Asp Leu Ser Gln Gln Gln
 50 55 60
 Met Gln Ser Asp Leu Asp Lys Ala Asp Leu Ser Ala Arg Arg Val Pro
 65 70 75 80
 Gly Gly Cys Cys Met Arg Gln Ala Ser Leu Gln Lys Ser Asp Arg Ala
 85 90 95
 Gly Pro Gly Ser Glu Ala Ser Thr Glu Ala Glu Ser Gly Glu Gly Ser
 100 105 110
 Gly Arg Gln Gly Pro His Arg Glu Ala
 115 120

<210> 2515

<211> 766

<212> PRT

<213> Homo sapiens

<400> 2515

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Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala
  1             5             10             15
Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val
      20             25             30
Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu
      35             40             45
Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val
      50             55             60
Asp Arg Ser Arg Gln Gly Phe Ser Thr Arg Tyr Lys Ile Tyr Arg Glu
      65             70             75             80
Phe Gly Arg Trp Lys Val Asn Asn Leu Ala Val Glu Arg Arg Asn Phe
      85             90             95
Leu Gly Ser Pro Leu Pro Leu Ala Pro Glu Phe Phe Arg Asn Ile Arg
      100            105            110
Leu Leu Gly Arg Arg Pro Thr Leu Gln Gln Ile Thr Glu Asn Leu Ile
      115            120            125
Lys Lys Tyr Gly Thr His Phe Leu Leu Ser Ala Thr Leu Gly Gly Glu
      130            135            140
Glu Ser Leu Thr Ile Phe Val Asp Lys Arg Lys Leu Ser Lys Arg Ala
      145            150            155            160
Glu Gly Ser Asp Ser Thr Thr Asn Ser Ser Ser Val Thr Leu Glu Thr
      165            170            175
Leu His Gln Leu Ala Ala Ser Tyr Phe Ile Asp Arg Asp Ser Thr Leu
      180            185            190
Arg Arg Leu His His Ile Gln Ile Ala Ser Thr Ala Ile Lys Val Thr
      195            200            205
Glu Thr Arg Thr Gly Pro Leu Gly Cys Ser Asn Tyr Asp Asn Leu Asp
      210            215            220
Ser Val Ser Ser Val Leu Val Gln Ser Pro Glu Asn Lys Ile Gln Leu
      225            230            235            240

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Trp Arg Lys Arg Met Leu Leu Thr Leu Lys Ser Asn Lys Tyr Lys Ser
 530 535 540
 Ser Leu Val His Met Ile Leu Gly Leu Ser Leu Gln Ile Cys Leu Thr
 545 550 555 560
 Lys Asn Ser Thr Leu Glu Pro Val Leu Ala Val Tyr Val Asn Pro Phe
 565 570 575
 Gly Gly Ser His Ser Glu Ser Trp Phe Met Pro Val Asn Glu Asn Ser
 580 585 590
 Phe Pro Asp Trp Glu Arg Thr Lys Leu Asp Leu Pro Leu Gln Cys Tyr
 595 600 605
 Asn Trp Thr Leu Thr Leu Gly Asn Lys Trp Lys Thr Phe Phe Glu Thr
 610 615 620
 Val His Ile Tyr Leu Arg Ser Arg Ile Lys Ser Asn Gly Pro Asn Gly
 625 630 635 640
 Asn Glu Ser Ile Tyr Tyr Glu Pro Leu Glu Phe Ile Asp Pro Ser Arg
 645 650 655
 Asn Leu Gly Tyr Met Lys Ile Asn Asn Ile Gln Val Phe Gly Tyr Ser
 660 665 670
 Met His Phe Asp Pro Glu Ala Ile Arg Asp Leu Ile Leu Gln Leu Asp
 675 680 685
 Tyr Pro Tyr Thr Gln Gly Ser Gln Asp Ser Ala Leu Leu Gln Leu Leu
 690 695 700
 Glu Ile Arg Asp Arg Val Asn Lys Leu Ser Pro Pro Gly Gln Arg Arg
 705 710 715 720
 Leu Asp Leu Phe Ser Cys Leu Leu Arg His Arg Leu Lys Leu Ser Thr
 725 730 735
 Ser Glu Val Val Arg Ile Gln Ser Ala Leu Gln Ala Phe Asn Ala Lys
 740 745 750
 Leu Pro Asn Thr Met Asp Tyr Asp Thr Thr Lys Leu Cys Ser
 755 760 765

<210> 2516

<211> 174

<212> PRT

<213> Homo sapiens

<400> 2516

Met Ala Gly Ser Val Glu Leu Gln Glu Ile Gly Gly Pro Leu Pro Gly
 1 5 10 15
 Pro Ser Thr His Gln Glu Pro Leu Arg Gly Leu Pro Val Gly Leu Cys
 20 25 30
 Pro Cys Leu Pro Leu Trp Met Glu Lys Ala His Ile Val Pro Pro Val
 35 40 45
 Gly Ala Asn Cys Arg Ala Gln Gln Gly Cys Met Gly Pro Ala Ser Met
 50 55 60
 Pro Leu Leu Leu Thr His Ile Leu Ser Ala Pro Thr Pro Val His Pro
 65 70 75 80
 Leu Val Ser Leu Ser Tyr Leu Ser Leu Ser Cys Pro His Pro Ser Leu
 85 90 95
 Phe Leu Ser Val Leu Leu Leu Pro Phe Thr Leu Phe Val Ser Pro Ser
 100 105 110
 Leu Ser Val Leu Pro Pro Ser Leu Ser Thr Leu His Leu Ser Leu Cys
 115 120 125
 Val Ser Ile Ser Val Ser Leu Ser Val Ser Leu Pro Ile Pro His Pro
 130 135 140
 His Ser Leu Ser Ser Pro Ser Ser Leu Pro Ser Cys Leu Pro Leu Ile
 145 150 155 160
 Trp Phe Ile Leu Leu His Pro Ala Ala Pro Pro Thr Glu Pro
 165 170

<210> 2517

<211> 484

<212> PRT

<213> Homo sapiens

<400> 2517

Met Val His Glu Thr Ser Tyr Ser Ala Gln Phe Lys Gly Glu Ala Ser
 1 5 10 15
 Lys Pro Thr Thr Ala Asp Asn Lys Val Ile Asp Arg Arg Arg Ile Arg
 20 25 30

Ser Leu Tyr Ser Glu Pro Phe Lys Glu Pro Pro Lys Val Glu Lys Pro
 35 40 45
 Ser Val Gln Ser Ser Lys Pro Lys Lys Thr Ser Ala Ser His Lys Pro
 50 55 60
 Thr Arg Lys Ala Lys Asp Lys Gln Ala Val Ser Gly Gln Ala Ala Lys
 65 70 75 80
 Lys Lys Ser Ala Glu Gly Pro Ser Thr Thr Lys Pro Asp Asp Lys Glu
 85 90 95
 Gln Ser Lys Glu Met Asn Asn Lys Leu Ala Glu Ala Lys Glu Ser Leu
 100 105 110
 Ala Gln Pro Val Ser Asp Ser Ser Lys Thr Gln Gly Pro Val Ala Thr
 115 120 125
 Glu Pro Asp Lys Asp Gln Gly Ser Val Val Pro Gly Leu Leu Lys Gly
 130 135 140
 Gln Gly Pro Met Val Gln Glu Pro Leu Lys Lys Gln Gly Ser Val Val
 145 150 155 160
 Pro Gly Pro Pro Lys Asp Leu Gly Pro Met Ile Pro Leu Pro Val Lys
 165 170 175
 Asp Gln Asp His Thr Val Pro Glu Pro Leu Lys Asn Glu Ser Pro Val
 180 185 190
 Ile Ser Ala Pro Val Lys Asp Gln Gly Pro Ser Val Pro Val Pro Pro
 195 200 205
 Lys Asn Gln Ser Pro Met Val Pro Ala Lys Val Lys Asp Gln Gly Ser
 210 215 220
 Val Val Pro Glu Ser Leu Lys Asp Gln Gly Pro Arg Ile Pro Glu Pro
 225 230 235 240
 Val Lys Asn Gln Ala Pro Met Val Pro Ala Pro Val Lys Asp Glu Gly
 245 250 255
 Pro Met Val Ser Ala Ser Val Lys Asp Gln Gly Pro Met Val Ser Ala
 260 265 270
 Pro Val Lys Asp Gln Gly Pro Ile Val Pro Ala Pro Val Lys Gly Glu
 275 280 285
 Gly Pro Ile Val Pro Ala Pro Val Lys Asp Glu Gly Pro Met Val Ser
 290 295 300
 Ala Pro Ile Lys Asp Gln Asp Pro Met Val Pro Glu His Pro Lys Asp
 305 310 315 320

Glu	Ser	Ala	Met	Ala	Thr	Ala	Pro	Ile	Lys	Asn	Gln	Gly	Ser	Met	Val			
						325							330					335
Ser	Glu	Pro	Val	Lys	Asn	Gln	Gly	Leu	Val	Val	Ser	Gly	Pro	Val	Lys			
						340							345					350
Asp	Gln	Asp	Val	Val	Val	Pro	Glu	His	Ala	Lys	Val	His	Asp	Ser	Ala			
						355							360					365
Val	Val	Ala	Pro	Val	Lys	Asn	Gln	Gly	Pro	Val	Val	Pro	Glu	Ser	Val			
						370							375					380
Lys	Asn	Gln	Asp	Pro	Ile	Leu	Pro	Val	Leu	Val	Lys	Asp	Gln	Gly	Pro			
						385							390					395
Thr	Val	Leu	Gln	Pro	Pro	Lys	Asn	Gln	Gly	Arg	Ile	Val	Pro	Glu	Pro			
						405							410					415
Leu	Lys	Asn	Gln	Val	Pro	Ile	Val	Pro	Val	Pro	Leu	Lys	Asp	Gln	Asp			
						420							425					430
Pro	Leu	Val	Pro	Val	Pro	Ala	Lys	Asp	Gln	Gly	Pro	Ala	Val	Pro	Glu			
						435							440					445
Pro	Leu	Lys	Thr	Gln	Gly	Pro	Arg	Asp	Pro	Gln	Leu	Pro	Thr	Val	Ser			
						450							455					460
Pro	Leu	Pro	Arg	Val	Met	Ile	Pro	Thr	Ala	Pro	His	Thr	Glu	Tyr	Ile			
						465							470					475
						480												
Glu	Ser	Ser	Pro															

<210> 2518

<211> 367

<212> PRT

<213> Homo sapiens

<400> 2518

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
1 5 10 15
Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
20 25 30
Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Ser Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Ser
 210 215 220
 Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 225 230 235 240
 Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu
 245 250 255
 Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys
 260 265 270
 Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg
 275 280 285
 Leu Lys Pro Glu Gly Glu Leu Pro Ala Thr Gln Ser Pro Ile Pro Ser
 290 295 300
 Thr Ile Arg Ser Val Gly Cys Trp Glu Lys Ala Glu Leu Gly Asp Lys
 305 310 315 320
 Glu Asn Ser Ser Ala Gly Thr Leu Pro Ser Asp Leu Gly Ala Ser Lys
 325 330 335

Gly Lys Glu Pro Glu Pro Ala Ser Leu Ala Ser Ser His Ser Leu Pro
 340 345 350
 Arg Arg His Ala Met Pro Ser Thr Leu Ser Val Ser Val His Glu
 355 360 365

<210> 2519

<211> 626

<212> PRT

<213> Homo sapiens

<400> 2519

Met Ser Lys Lys Gly Arg Ser Lys Gly Glu Lys Pro Glu Met Glu Thr
 1 5 10 15
 Asp Ala Val Gln Met Ala Asn Glu Glu Leu Arg Ala Lys Leu Thr Ser
 20 25 30
 Ile Gln Ile Glu Phe Gln Gln Glu Lys Ser Lys Val Gly Lys Leu Arg
 35 40 45
 Glu Arg Leu Gln Glu Ala Lys Leu Glu Arg Glu Gln Glu Gln Arg Arg
 50 55 60
 His Thr Ala Tyr Ile Ser Glu Leu Lys Ala Lys Leu His Glu Glu Lys
 65 70 75 80
 Thr Lys Glu Leu Gln Ala Leu Arg Glu Gly Leu Ile Arg Gln His Glu
 85 90 95
 Gln Glu Ala Ala Arg Thr Ala Lys Ile Lys Glu Gly Glu Leu Gln Arg
 100 105 110
 Leu Gln Ala Thr Leu Asn Val Leu Arg Asp Gly Ala Ala Asp Lys Val
 115 120 125
 Lys Thr Ala Leu Leu Thr Glu Ala Arg Glu Glu Ala Arg Arg Ala Phe
 130 135 140
 Asp Gly Glu Arg Leu Arg Leu Gln Gln Glu Ile Leu Glu Leu Lys Ala
 145 150 155 160
 Ala Arg Lys Gln Ala Glu Glu Ala Leu Ser Asn Cys Met Gln Ala Asp
 165 170 175
 Lys Thr Lys Ala Ala Asp Leu Arg Ala Ala Tyr Gln Ala His Gln Asp
 180 185 190

Glu Val His Arg Ile Lys Arg Glu Cys Glu Arg Asp Ile Arg Arg Leu
 195 200 205
 Met Asp Glu Ile Lys Gly Lys Asp Arg Val Ile Leu Ala Ser Glu Lys
 210 215 220
 Glu Leu Gly Val Gln Ala Gly Gln Thr Gln Lys Leu Leu Leu Gln Lys
 225 230 235 240
 Glu Ala Leu Asp Glu Gln Leu Val Gln Val Lys Glu Ala Glu Arg His
 245 250 255
 His Ser Ser Pro Lys Arg Glu Leu Pro Pro Gly Ile Gly Asp Met Val
 260 265 270
 Glu Leu Met Gly Val Gln Asp Gln His Met Asp Glu Arg Asp Val Arg
 275 280 285
 Arg Phe Gln Leu Lys Ile Ala Glu Leu Asn Ser Val Ile Arg Lys Leu
 290 295 300
 Glu Asp Arg Asn Thr Leu Leu Ala Asp Glu Arg Asn Glu Leu Leu Lys
 305 310 315 320
 Arg Ser Arg Glu Thr Glu Val Gln Leu Lys Pro Leu Val Glu Lys Asn
 325 330 335
 Lys Arg Met Asn Lys Lys Asn Glu Asp Leu Leu Gln Ser Ile Gln Arg
 340 345 350
 Met Glu Glu Lys Ile Lys Asn Leu Thr Arg Glu Asn Ala Glu Met Lys
 355 360 365
 Glu Lys Leu Ser Ala Gln Ala Ser Leu Lys Arg His Thr Ser Leu Asn
 370 375 380
 Asp Leu Ser Leu Thr Arg Asp Glu Gln Glu Ile Glu Phe Leu Arg Leu
 385 390 395 400
 Gln Val Leu Glu Gln Gln His Val Ile Asp Asp Leu Ser Leu Glu Arg
 405 410 415
 Glu Arg Leu Leu Arg Ser Lys Arg His Arg Gly Lys Ser Leu Lys Pro
 420 425 430
 Pro Lys Lys His Val Val Glu Thr Phe Phe Gly Phe Asp Glu Glu Ser
 435 440 445
 Val Asp Ser Glu Thr Leu Ser Glu Thr Ser Tyr Asn Thr Asp Arg Thr
 450 455 460
 Asp Arg Thr Pro Ala Thr Pro Glu Glu Asp Leu Asp Asp Ala Thr Ala
 465 470 475 480

Arg Glu Glu Ala Asp Leu Arg Phe Cys Gln Leu Thr Arg Glu Tyr Gln
 485 490 495
 Ala Leu Gln Arg Ala Tyr Ala Leu Leu Gln Glu Gln Val Gly Gly Thr
 500 505 510
 Leu Asp Ala Glu Arg Glu Ala Arg Thr Arg Glu Gln Leu Gln Ala Asp
 515 520 525
 Leu Leu Arg Cys Gln Ala Lys Ile Glu Asp Leu Glu Lys Leu Leu Val
 530 535 540
 Glu Lys Gly Gln Asp Ser Lys Trp Val Glu Glu Lys Gln Leu Leu Ile
 545 550 555 560
 Arg Thr Asn Gln Asp Leu Leu Glu Lys Ile Tyr Arg Leu Glu Met Glu
 565 570 575
 Glu Asn Gln Leu Lys Asn Glu Met Gln Asp Ala Lys Asp Gln Asn Glu
 580 585 590
 Leu Leu Glu Phe Arg Val Leu Glu Leu Glu Val Arg Asp Ser Ile Cys
 595 600 605
 Cys Lys Leu Ser Asn Gly Ala Asp Ile Leu Phe Glu Pro Lys Leu Lys
 610 615 620
 Phe Met
 625

<210> 2520

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2520

Met Gly Leu Val Leu Pro Trp Ser Ala Asp Asp Asp Ser Pro Ser Arg
 1 5 10 15
 Ala Thr Leu Gly Asn Met Lys Gln Val Trp Arg Val Gly Cys Val Pro
 20 25 30
 Ala Leu Val Gly Pro Val Gly Leu Glu His Ala Phe Arg Gly Ser Val
 35 40 45
 Trp Ala Glu Ala Arg Pro Thr Thr Gln Cys Gln Ser Gln Arg Arg Gly

50 55 60
 Pro Thr Thr Lys Ala Lys Leu Asp Gln Val Ser Ile Ala Met Ala Gln
 65 70 75 80
 Cys Ala Pro Trp Pro Leu Lys Ile Pro Leu Cys Arg Val Cys Arg Asp
 85 90 95
 Leu Asp Cys Lys Gly Pro Ser Leu Gln Val Trp Lys His Leu Pro Ile
 100 105 110
 Arg Ala Leu Ser Pro Ser Gly Ser Gly Leu Gln Gly Ala Ala Gly Phe
 115 120 125
 Thr Ala Leu Gln Leu Gly Ser Gln Leu Ser Pro Arg Val Leu Val Glu
 130 135 140
 Pro Ser Arg Gly Gly Trp Arg Val Gly Phe Lys Gly Asp Gly Asn Thr
 145 150 155 160
 Trp Gly Arg Ser Trp Asn Leu Val Ala
 165

<210> 2521

<211> 278

<212> PRT

<213> Homo sapiens

<400> 2521

Met Ala Met Ser Leu Leu Gln Asp Trp Cys Arg Ser Leu Asp Val Asp
 1 5 10 15
 Ala His Arg Ala Leu Leu Val Thr Gly Ile Pro Glu Gly Leu Glu Gln
 20 25 30
 Ala Asp Val Glu Ala Val Leu Gln Pro Thr Leu Leu Pro Leu Gly Thr
 35 40 45
 Phe Arg Leu Arg His Met Lys Ala Leu Met Asn Glu Lys Ala Gln Ala
 50 55 60
 Ala Leu Val Glu Phe Val Glu Asp Val Asn His Ala Ala Ile Pro Arg
 65 70 75 80
 Glu Ile Pro Gly Lys Asp Gly Val Trp Arg Val Leu Trp Lys Asp Arg
 85 90 95
 Ala Gln Asp Thr Arg Val Leu Arg Gln Met Arg Arg Leu Leu Leu Asp

100	105	110
Asp Gly Pro Thr Gln Ala Ala Glu Ala Gly Thr Pro Gly Glu Ala Pro		
115	120	125
Thr Pro Pro Ala Ser Glu Thr Gln Ala Gln Asp Ser Gly Glu Val Thr		
130	135	140
Gly Gln Ala Gly Ser Leu Leu Gly Ala Ala Arg Asn Pro Arg Arg Gly		
145	150	155
Arg Arg Gly Arg Arg Asn Arg Thr Arg Arg Asn Arg Leu Thr Gln Lys		
165	170	175
Gly Lys Lys Arg Ser Arg Gly Gly Arg Pro Ser Ala Pro Ala Arg Ser		
180	185	190
Glu Ala Glu Asp Ser Ser Asp Glu Ser Leu Gly Ile Val Ile Glu Glu		
195	200	205
Ile Asp Gln Gly Asp Leu Ser Gly Glu Glu Asp Gln Ser Ala Leu Tyr		
210	215	220
Ala Thr Leu Gln Ala Ala Ala Arg Glu Leu Val Arg Gln Trp Ala Pro		
225	230	235
Cys Asn Ser Glu Gly Ala Cys Pro Thr Cys Pro Trp Glu Gly Ile Gly		
245	250	255
Gly Phe Gly Cys Asp Leu Thr Val Gln Thr Arg Leu Ser Gln Ser Tyr		
260	265	270
Val Arg Asp Thr Gln Met		
275		

<210> 2522

<211> 518

<212> PRT

<213> Homo sapiens

<400> 2522

Met Val Gln Leu Val Leu Gln Tyr Arg Asp Tyr Gln Arg Ala Thr Gln
1 5 10 15
Arg Leu Ala Gly Ile Pro Glu Leu Leu Asn Lys Leu Arg Gln Ala Pro
20 25 30
Asp Phe Tyr Val Glu Met Lys Trp Glu Phe Thr Ser Trp Val Pro Leu

35	40	45
Val Ser Lys Met Cys Pro Ser Asp Val Tyr Arg Val Trp Lys Arg Gly		
50	55	60
Glu Ser Leu Arg Val Asp Thr Ser Leu Leu Gly Phe Glu His Val Thr		
65	70	75
Trp Gln Arg Gly Arg Arg Ser Phe Ile Phe Lys Gly Gln Glu Ala Gly		
85	90	95
Ala Leu Val Met Glu Val Asp His Asp Arg Gln Val Val His Val Glu		
100	105	110
Thr Leu Gly Leu Thr Leu Gln Glu Pro Glu Thr Leu Leu Ala Ala Met		
115	120	125
Arg Pro Ser Glu Glu His Val Ala Ser Arg Leu Thr Ser Pro Ile Val		
130	135	140
Ser Thr His Leu Asp Thr Arg Asn Val Ala Phe Glu Arg Asn Lys Cys		
145	150	155
Gly Ile Trp Gly Trp Arg Ser Glu Lys Met Glu Thr Val Ser Gly Tyr		
165	170	175
Glu Ala Lys Val Tyr Ser Ala Thr Asn Val Glu Leu Val Thr Arg Thr		
180	185	190
Arg Thr Glu His Leu Ser Asp Gln Asp Lys Ser Arg Ser Lys Ala Gly		
195	200	205
Lys Thr Pro Phe Gln Ser Phe Leu Gly Met Ala Gln Gln His Ser Ser		
210	215	220
His Thr Gly Ala Pro Val Gln Gln Ala Ala Ser Pro Thr Asn Pro Thr		
225	230	235
Ala Ile Ser Pro Glu Glu Tyr Phe Asp Pro Asn Phe Ser Leu Glu Ser		
245	250	255
Arg Asn Ile Gly Arg Pro Ile Glu Met Ser Ser Lys Val Gln Arg Phe		
260	265	270
Lys Ala Thr Leu Trp Leu Ser Glu Glu His Pro Leu Ser Leu Gly Asp		
275	280	285
Gln Val Thr Pro Ile Ile Asp Leu Met Ala Ile Ser Asn Ala His Phe		
290	295	300
Ala Lys Leu Arg Asp Phe Ile Thr Leu Arg Leu Pro Pro Gly Phe Pro		
305	310	315
Val Lys Ile Glu Ile Pro Leu Phe His Val Leu Asn Ala Arg Ile Thr		

325 330 335
 Phe Ser Asn Leu Cys Gly Cys Asp Glu Pro Leu Ser Ser Val Trp Val
 340 345 350
 Pro Ala Pro Ser Ser Ala Val Ala Ala Ser Gly Asn Pro Phe Pro Cys
 355 360 365
 Glu Val Asp Pro Thr Val Phe Glu Val Pro Asn Gly Tyr Ser Val Leu
 370 375 380
 Gly Met Glu Arg Asn Glu Pro Leu Arg Asp Glu Asp Asp Asp Leu Leu
 385 390 395 400
 Gln Phe Ala Ile Gln Gln Ser Leu Leu Glu Ala Gly Thr Glu Ala Glu
 405 410 415
 Gln Val Thr Val Trp Glu Ala Leu Thr Asn Thr Arg Pro Gly Ala Arg
 420 425 430
 Pro Pro Pro Gln Ala Thr Val Tyr Glu Glu Gln Leu Gln Leu Glu Arg
 435 440 445
 Ala Leu Gln Glu Ser Leu Gln Leu Ser Thr Glu Pro Arg Gly Pro Gly
 450 455 460
 Ser Pro Pro Arg Thr Pro Pro Ala Pro Gly Pro Pro Ser Phe Glu Glu
 465 470 475 480
 Gln Leu Arg Leu Ala Leu Glu Leu Ser Ser Arg Glu Gln Glu Glu Arg
 485 490 495
 Glu Arg Arg Gly Gln Gln Glu Glu Glu Asp Leu Gln Arg Ile Leu Gln
 500 505 510
 Leu Ser Leu Thr Glu His
 515

<210> 2523

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2523

Met Thr Ala Pro Ala Arg Arg Ser Arg Ser Leu Arg Pro Gly Met Trp
 1 5 10 15
 Ser Pro Lys Glu Trp Trp Glu Pro Gln Pro Gly Arg Asp Ala Ala Ala

20 25 30
 Ala Arg Ala Arg Ser Pro Tyr Pro Gly His Leu Trp Lys Pro Ala His
 35 40 45
 Leu Leu His Gln Pro Phe Pro Asn Thr Val Val Pro Pro Leu Pro Ser
 50 55 60
 Leu Leu Lys Asn Arg Ile Val Trp Gly Ser Gly Ile Phe Trp Thr Pro
 65 70 75 80
 Gly Thr Pro Ile Arg Leu Pro Leu Val Pro Leu Leu Gln Ser Asn Glu
 85 90 95
 Val Cys Phe Gly Phe Val Tyr
 100

<210> 2524

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2524

Met Gly Thr Arg Ser Phe Cys Pro Ile Met Gly Thr Arg Ser Phe Cys
 1 5 10 15
 Pro Ile Val Gly Ser Thr Leu Leu Leu Pro Asn His Trp Ala His Ala
 20 25 30
 Pro Ser Ala Arg Ser Leu Gly Ser Arg Ser Phe Cys Pro Ile Leu Gly
 35 40 45
 Ala Arg Ser Phe Cys Pro Ile Val Gly Arg Thr Leu Leu Leu Pro Asp
 50 55 60
 Arg Trp Ala His Ala Pro Ser Ala Arg Ser Leu Gly Ala Arg Ser Phe
 65 70 75 80
 Cys Pro Ile Val Gly Ser Thr Leu Leu Leu Pro Asp Arg Trp Ala His
 85 90 95
 Ala Pro Ser Ala Arg Ser Leu Gly Ala Arg Phe Phe Cys Leu Ile Val
 100 105 110
 Gly Arg Thr Leu Leu Leu Pro Asp Arg Trp Ala His Ala Pro Ser Ala
 115 120 125

<210> 2525

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2525

Met Ala Ser Gln Pro Glu Ala Thr Ala Gly His His Leu Gly Pro Ala
 1 5 10 15
 Ser Pro Pro Thr Arg Gly Arg Gln Ser Pro Pro Ser Leu Val Gly Asp
 20 25 30
 Gly Asn Arg Ala Cys Cys Cys His Leu Ala Ala Asn Ser Gly Asn Glu
 35 40 45
 Ser Arg His Ala His Tyr Pro Ala Thr Leu Pro Ile Leu Thr Leu Tyr
 50 55 60
 Val Lys Gln Asn Ser Arg Phe Arg Ser Glu Leu Ser Glu Gly Val Val
 65 70 75 80
 Pro Val Leu Leu Val Gly Lys Leu Arg Leu Arg Glu Ala Glu Asp Leu
 85 90 95
 Pro Lys Ile Thr Pro Pro Gly Pro Arg Ile Gln Ala Gln Ala Cys Pro
 100 105 110
 Gly Ser Leu Trp Pro Pro Gly Cys Glu Glu Ala Ala Arg Asp Gln Val
 115 120 125
 Pro Pro Phe
 130

<210> 2526

<211> 842

<212> PRT

<213> Homo sapiens

<400> 2526

Met Asp Phe Lys Val Gly Ala Asp Gly Thr Val Phe Ala Ala Arg Glu
 1 5 10 15
 Leu Gln Val Pro Ser Glu Gln Val Ala Phe Thr Val Thr Ala Trp Asp

	20		25		30
Ser	Gln	Thr	Ala	Glu	Lys
Trp	Asp	Ala	Val	Val	Arg
Leu	Leu	Val	Ala		
	35		40		45
Gln	Thr	Ser	Ser	Pro	His
Ser	Gly	His	Lys	Pro	Gln
Lys	Gly	Lys	Lys		
	50		55		60
Val	Val	Ala	Leu	Asp	Pro
Ser	Pro	Pro	Pro	Lys	Asp
Thr	Leu	Leu	Pro		
	65		70		75
					80
Trp	Pro	Gln	His	Gln	Asn
Ala	Asn	Gly	Leu	Arg	Arg
Arg	Arg	Lys	Arg	Asp	
	85		90		95
Trp	Val	Ile	Pro	Pro	Ile
Asn	Val	Pro	Glu	Asn	Ser
Arg	Gly	Pro	Phe		
	100		105		110
Pro	Gln	Gln	Leu	Val	Arg
Ile	Arg	Ser	Asp	Lys	Asp
Asn	Asp	Ile	Pro		
	115		120		125
Ile	Arg	Tyr	Ser	Ile	Thr
Gly	Val	Gly	Ala	Asp	Gln
Pro	Pro	Met	Glu		
	130		135		140
Val	Phe	Ser	Ile	Asp	Ser
Met	Ser	Gly	Arg	Met	Tyr
Val	Thr	Arg	Pro		
	145		150		155
					160
Met	Asp	Arg	Glu	Glu	His
Ala	Ser	Tyr	His	Leu	Arg
Ala	His	Ala	Val		
	165		170		175
Asp	Met	Asn	Gly	Asn	Lys
Val	Glu	Asn	Pro	Ile	Asp
Leu	Tyr	Ile	Tyr		
	180		185		190
Val	Ile	Asp	Met	Asn	Asp
Asn	Arg	Pro	Glu	Phe	Ile
Asn	Gln	Val	Tyr		
	195		200		205
Asn	Gly	Ser	Val	Asp	Glu
Gly	Ser	Lys	Pro	Gly	Thr
Tyr	Val	Met	Thr		
	210		215		220
Val	Thr	Ala	Asn	Asp	Ala
Asp	Asp	Ser	Thr	Thr	Ala
Asn	Gly	Met	Val		
	225		230		235
					240
Arg	Tyr	Arg	Ile	Val	Thr
Gln	Thr	Pro	Gln	Ser	Pro
Ser	Gln	Asn	Met		
	245		250		255
Phe	Thr	Ile	Asn	Ser	Glu
Thr	Gly	Asp	Ile	Val	Thr
Val	Ala	Ala	Gly		
	260		265		270
Leu	Asp	Arg	Glu	Lys	Val
Gln	Gln	Tyr	Thr	Val	Ile
Val	Gln	Ala	Thr		
	275		280		285
Asp	Met	Glu	Gly	Asn	Leu
Asn	Tyr	Gly	Leu	Ser	Asn
Thr	Ala	Thr	Ala		
	290		295		300
Ile	Ile	Thr	Val	Thr	Asp
Val	Asn	Asp	Asn	Pro	Pro
Glu	Phe	Thr	Ala		

305 310 315 320
 Ser Thr Phe Ala Gly Glu Val Pro Glu Asn Arg Val Glu Thr Val Val
 325 330 335
 Ala Asn Leu Thr Val Met Asp Arg Asp Gln Pro His Ser Pro Asn Trp
 340 345 350
 Asn Ala Val Tyr Arg Ile Ile Ser Gly Asp Pro Ser Gly His Phe Ser
 355 360 365
 Val Arg Thr Asp Pro Val Thr Asn Glu Gly Met Val Thr Val Val Lys
 370 375 380
 Ala Val Asp Tyr Glu Leu Asn Arg Ala Phe Met Leu Thr Val Met Val
 385 390 395 400
 Ser Asn Gln Ala Pro Leu Ala Ser Gly Ile Gln Met Ser Phe Gln Ser
 405 410 415
 Thr Ala Gly Val Thr Ile Ser Ile Met Asp Ile Ser Glu Ala Pro Tyr
 420 425 430
 Phe Pro Ser Asn His Lys Leu Ile Arg Leu Glu Glu Gly Val Pro Pro
 435 440 445
 Gly Thr Val Leu Thr Thr Phe Ser Ala Val Asp Pro Asp Arg Phe Met
 450 455 460
 Gln Arg Ala Val Arg Tyr Ser Lys Leu Ser Asp Pro Ala Ser Trp Leu
 465 470 475 480
 His Ile Asn Ala Thr Asn Gly Gln Ile Thr Thr Ala Ala Val Leu Asp
 485 490 495
 Arg Glu Ser Leu Tyr Thr Lys Asn Asn Val Tyr Glu Ala Thr Phe Leu
 500 505 510
 Ala Ala Asp Asn Gly Ile Pro Pro Ala Ser Gly Thr Gly Thr Leu Gln
 515 520 525
 Ile Tyr Leu Ile Asp Ile Asn Asp Asn Ala Pro Glu Leu Leu Pro Lys

 530 535 540
 Glu Ala Gln Ile Cys Glu Lys Pro Asn Leu Asn Ala Ile Asn Ile Thr
 545 550 555 560
 Ala Ala Asp Ala Asp Val Asp Pro Asn Ile Gly Pro Tyr Val Phe Glu
 565 570 575
 Leu Pro Phe Val Pro Ala Ala Val Arg Lys Asn Trp Thr Ile Thr Arg
 580 585 590

Leu Asn Gly Asp Tyr Ala Gln Leu Ser Leu Arg Ile Leu Tyr Leu Glu
 595 600 605
 Ala Gly Met Tyr Asp Val Pro Ile Ile Val Thr Asp Ser Gly Asn Pro
 610 615 620
 Pro Leu Ser Asn Thr Ser Ile Ile Lys Val Lys Val Cys Pro Cys Asp
 625 630 635 640
 Asp Asn Gly Asp Cys Thr Thr Ile Gly Ala Val Ala Ala Ala Gly Leu
 645 650 655
 Gly Thr Gly Ala Ile Val Ala Ile Leu Ile Cys Ile Leu Ile Leu Leu
 660 665 670
 Thr Met Val Leu Leu Phe Val Met Trp Met Lys Arg Arg Glu Lys Glu
 675 680 685
 Arg His Thr Lys Gln Leu Leu Ile Asp Pro Glu Asp Asp Val Arg Asp
 690 695 700
 Asn Ile Leu Lys Tyr Asp Glu Glu Gly Gly Gly Glu Glu Asp Gln Asp
 705 710 715 720
 Tyr Asp Leu Ser Gln Leu Gln Gln Pro Glu Ala Met Gly His Val Pro
 725 730 735
 Ser Lys Ala Pro Gly Val Arg Arg Val Asp Glu Arg Pro Val Gly Ala
 740 745 750
 Glu Pro Gln Tyr Pro Ile Arg Pro Met Val Pro His Pro Gly Asp Ile
 755 760 765
 Gly Asp Phe Ile Asn Glu Gly Leu Arg Ala Ala Asp Asn Asp Pro Thr
 770 775 780
 Ala Pro Pro Tyr Asp Ser Leu Leu Val Phe Asp Tyr Glu Gly Ser Gly
 785 790 795 800
 Ser Thr Ala Gly Ser Val Ser Ser Leu Asn Ser Ser Ser Ser Gly Asp
 805 810 815
 Gln Asp Tyr Asp Tyr Leu Asn Asp Trp Gly Pro Arg Phe Lys Lys Leu
 820 825 830
 Ala Asp Met Tyr Gly Gly Gly Glu Glu Asp
 835 840

<210> 2527

<211> 230

<212> PRT

<213> Homo sapiens

<400> 2527

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Met His Ala Ala Ala His Pro Gly Leu Cys Pro Leu Arg Leu Cys His
  1             5             10             15
Asp Thr Ala Asp Arg Ala Gly Glu Ala Ala Pro Ala Leu Lys Val Ala
      20             25             30
Ala Ala Phe Arg Ala Gly Trp Arg Asp Leu Pro His Ser Pro Thr Leu
      35             40             45
Gly Leu Arg Gly Pro Gly Lys Pro Leu Gln Glu Gly Thr Arg Ser Ser
      50             55             60
Ser Gly Phe Trp Ser Gly Val Pro Ala Ala Ala Glu Ala Ser Gly Gly
      65             70             75             80
Asn Thr Thr Lys Lys Gly Arg Gln Leu Gly Pro Ser Lys Gly Val Ala
      85             90             95
Thr Arg Ala Gln Gln Pro Arg Ser Val Thr Ala Gln Ser Ser Ala Pro
      100            105            110
Ala Phe Pro Ser Leu Cys Gln Gly Leu Met Ala Lys Pro Ala Leu Gly
      115            120            125
Ala Phe Phe Pro Val Pro Ile Trp Leu Leu Cys Cys Thr Lys Leu Gly
      130            135            140
Ser Gln Pro Ala Lys Ser Arg Leu Gly Leu Ala Ser Pro Leu Ala Gly
      145            150            155            160
Leu Glu Val Gly Arg Val Gly Cys Gly Ala Ser Ser Leu Cys Val Gly
      165            170            175
Pro Gly Arg Trp Leu Lys Ser Pro Leu Gln Glu Arg Ile Lys Val Ser
      180            185            190
Arg Val Val Arg Lys Pro Glu Ser Gly Ser Pro Asp Ser Ser Leu Trp
      195            200            205
Gly Ala Phe Phe Met Phe Ser Gln Leu Phe Gln Asp Trp Ala Val Glu
      210            215            220
Phe His Val Ser Gly Ala
      225            230

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<210> 2528

<211> 473

<212> PRT

<213> Homo sapiens

<400> 2528

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Met Ala Leu Lys Asp Thr Gly Ser Gly Gly Ser Thr Ile Leu Pro Ile
  1             5             10             15
Ser Glu Met Val Ser Ser Ser Ser Ser Pro Gly Ala Ser Ala Ala Ala
      20             25             30
Ala Pro Gly Pro Cys Ala Pro Ser Pro Phe Pro Glu Val Val Glu Leu
      35             40             45
Asn Val Gly Gly Gln Val Tyr Val Thr Lys His Ser Thr Leu Leu Ser
      50             55             60
Val Pro Asp Ser Thr Leu Ala Ser Met Phe Ser Pro Ser Ser Pro Arg
      65             70             75             80
Gly Gly Ala Arg Arg Arg Gly Glu Leu Pro Arg Asp Ser Arg Ala Arg
      85             90             95
Phe Phe Ile Asp Arg Asp Gly Phe Leu Phe Arg Tyr Val Leu Asp Tyr
      100            105            110
Leu Arg Asp Lys Gln Leu Ala Leu Pro Glu His Phe Pro Glu Lys Glu
      115            120            125
Arg Leu Leu Arg Glu Ala Glu Tyr Phe Gln Leu Thr Asp Leu Val Lys
      130            135            140
Leu Leu Ser Pro Lys Val Thr Lys Gln Asn Ser Leu Asn Asp Glu Gly
      145            150            155            160
Cys Gln Ser Asp Leu Glu Asp Asn Val Ser Gln Gly Ser Ser Asp Ala
      165            170            175
Leu Leu Leu Arg Gly Ala Ala Ala Ala Val Pro Ser Gly Pro Gly Ala
      180            185            190
His Gly Gly Gly Gly Gly Gly Gly Ala Gln Asp Lys Arg Ser Gly Phe
      195            200            205
Leu Thr Leu Gly Tyr Arg Gly Ser Tyr Thr Thr Val Arg Asp Asn Gln
      210            215            220
Ala Asp Ala Lys Phe Arg Arg Val Ala Arg Ile Met Val Cys Gly Arg
      225            230            235            240

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Ile Ala Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser Arg
 245 250 255
 Asp Pro Asp Arg Gln Pro Glu Lys Tyr Thr Ser Arg Phe Tyr Leu Lys
 260 265 270
 Phe Thr Tyr Leu Glu Gln Ala Phe Asp Arg Leu Ser Glu Ala Gly Phe
 275 280 285
 His Met Val Ala Cys Asn Ser Ser Gly Thr Ala Ala Phe Val Asn Gln
 290 295 300
 Tyr Arg Asp Asp Lys Ile Trp Ser Ser Tyr Thr Glu Tyr Ile Phe Phe
 305 310 315 320
 Arg Pro Pro Gln Lys Ile Val Ser Pro Lys Gln Glu His Glu Asp Arg
 325 330 335
 Lys His Asp Lys Val Thr Asp Lys Gly Ser Glu Ser Gly Thr Ser Cys
 340 345 350
 Asn Glu Leu Ser Thr Ser Ser Cys Asp Ser His Ser Glu Ala Ser Thr
 355 360 365
 Pro Gln Asp Asn Pro Ser Ser Ala Gln Gln Ala Thr Ala His Gln Pro
 370 375 380
 Asn Thr Leu Thr Leu Asp Arg Pro Ser Lys Lys Ala Pro Val Gln Trp
 385 390 395 400
 Ile Pro Pro Pro Asp Lys Arg Arg Asn Ser Glu Leu Phe Gln Thr Leu
 405 410 415
 Ile Ser Lys Ser Arg Glu Thr Asn Leu Ser Lys Lys Lys Val Cys Glu
 420 425 430
 Lys Leu Ser Val Glu Glu Glu Met Lys Lys Cys Ile Gln Asp Phe Lys
 435 440 445
 Lys Ile His Ile Pro Asp Tyr Phe Pro Glu Arg Lys Arg Gln Trp Gln
 450 455 460
 Ser Glu Leu Leu Gln Lys Tyr Gly Leu
 465 470

<210> 2529

<211> 230

<212> PRT

<213> Homo sapiens

<400> 2529

Met Asp Val Gly Phe Gln Gly Arg Cys Ser Arg Trp Ser Arg Ala Leu
 1 5 10 15
 Arg Gly Arg Tyr Ser Ser Ala Glu Arg Lys Arg Arg Ala Arg Gln Pro
 20 25 30
 Arg Glu Pro Arg Glu Gln Ala Pro Arg Val Ser Ala Pro Pro Gly Arg
 35 40 45
 Leu Pro Ala Phe Phe Pro Gln Phe Ala Leu Leu Pro Gln Ser Gly Pro
 50 55 60
 Arg Leu Ile Leu Cys Thr Cys Glu Trp Ala His Thr Ser Ser Pro Gly
 65 70 75 80
 Thr Ile Leu Ser Ser Ile Ser Leu Gly Glu Ser Thr Phe Leu Thr Ile
 85 90 95
 Asn Leu Leu Ala Thr Ala Gly Lys Val Ala Gly Cys Glu Trp Gly Gly
 100 105 110
 Glu Gly Arg Phe Thr Arg Ser Glu Ala Pro Lys Leu Ala Ala Ser Ala
 115 120 125
 Lys Arg Leu Cys Phe Leu Arg Phe Leu Thr Asn Lys Trp Gly Gly Met
 130 135 140
 Leu Ala Trp Pro Pro Ala Ala Pro Ala Arg Ala Leu Gly Ser Leu Ser
 145 150 155 160
 Ser Leu Met Pro Ser Phe Arg Arg Ser Pro Ala Ala Leu Thr Pro Gly
 165 170 175
 Leu Leu Arg Pro Leu Ala Lys Val Cys Ser Pro Met Asp Ala Gly Arg
 180 185 190
 Gly Leu Ser Leu Ser Ala Leu Thr Gln Leu Arg Leu Lys Pro Gln Ser
 195 200 205
 Ser His Leu Leu Pro Pro Val Tyr Pro Pro Ala Pro Leu Pro Pro Pro
 210 215 220
 Lys Asp Val Pro Leu Gln
 225 230

<210> 2530

<211> 602

<212> PRT

<213> Homo sapiens

<400> 2530

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Met Glu Ser His Ser Arg Ala Gly Lys Ser Arg Lys Ser Ala Lys Phe
  1             5             10             15
Arg Ser Ile Ser Arg Ser Leu Met Leu Cys Asn Ala Lys Thr Ser Asp
      20             25             30
Asp Gly Ser Ser Pro Asp Glu Lys Tyr Pro Asp Pro Phe Glu Ile Ser
      35             40             45
Leu Ala Gln Gly Lys Glu Gly Ile Phe His Ser Ser Val Gln Leu Ala
      50             55             60
Asp Thr Ser Glu Ala Gly Pro Ser Ser Val Pro Asp Leu Ala Leu Ala
      65             70             75             80
Ser Glu Ala Ala Gln Leu Gln Ala Ala Gly Asn Asp Arg Gly Lys Thr
      85             90             95
Cys Arg Arg Ile Phe Phe Met Lys Glu Ser Ser Thr Ala Ser Ser Arg
      100            105            110
Glu Lys Pro Gly Lys Leu Glu Ala Gln Ser Ser Asn Phe Leu Phe Pro
      115            120            125
Lys Ala Cys His Gln Arg Ala Arg Ser Asn Ser Thr Ser Val Asn Pro
      130            135            140
Tyr Cys Thr Arg Glu Ile Asp Phe Pro Met Thr Lys Lys Ser Ala Ala
      145            150            155            160
Pro Thr Asp Arg Gln Pro Tyr Ser Leu Cys Ser Asn Arg Lys Ser Leu
      165            170            175
Ser Gln Gln Leu Asp Cys Pro Ala Gly Lys Ala Ala Gly Thr Ser Arg
      180            185            190
Pro Thr Arg Ser Leu Ser Thr Ala Gln Leu Val Gln Pro Ser Gly Gly
      195            200            205
Leu Gln Ala Ser Val Ile Ser Asn Ile Val Leu Met Lys Gly Gln Ala
      210            215            220
Lys Gly Leu Gly Phe Ser Ile Val Gly Gly Lys Asp Ser Ile Tyr Gly
      225            230            235            240
Pro Ile Gly Ile Tyr Val Lys Thr Ile Phe Ala Gly Gly Ala Ala Ala
      245            250            255

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Ala Asp Gly Arg Leu Gln Glu Gly Asp Glu Ile Leu Glu Leu Asn Gly
 260 265 270
 Glu Ser Met Ala Gly Leu Thr His Gln Asp Ala Leu Gln Lys Phe Lys
 275 280 285
 Gln Ala Lys Lys Gly Leu Leu Thr Leu Thr Val Arg Thr Arg Leu Thr
 290 295 300
 Ala Pro Pro Ser Leu Cys Ser His Leu Ser Pro Pro Leu Cys Arg Ser
 305 310 315 320
 Leu Ser Ser Ser Thr Cys Ile Thr Lys Asp Ser Ser Ser Phe Ala Leu
 325 330 335
 Glu Ser Pro Ser Ala Pro Ile Ser Thr Ala Lys Pro Asn Tyr Arg Ile
 340 345 350
 Met Val Glu Val Ser Leu Gln Lys Glu Ala Gly Val Gly Leu Gly Ile
 355 360 365
 Gly Leu Cys Ser Val Pro Tyr Phe Gln Cys Ile Ser Gly Ile Phe Val
 370 375 380
 His Thr Leu Ser Pro Gly Ser Val Ala His Leu Asp Gly Arg Leu Arg
 385 390 395 400
 Cys Gly Asp Glu Ile Val Glu Ile Ser Asp Ser Pro Val His Cys Leu
 405 410 415
 Thr Leu Asn Glu Val Tyr Thr Ile Leu Ser His Cys Asp Pro Gly Pro
 420 425 430
 Val Pro Ile Ile Val Ser Arg His Pro Asp Pro Gln Val Ser Glu Gln
 435 440 445
 Gln Leu Lys Glu Ala Val Ala Gln Ala Val Glu Asn Thr Lys Phe Gly
 450 455 460
 Lys Glu Arg His Gln Trp Ser Leu Glu Gly Val Lys Arg Leu Glu Ser
 465 470 475 480
 Ser Trp His Gly Arg Pro Thr Leu Glu Lys Glu Arg Glu Lys Asn Ser
 485 490 495
 Ala Pro Pro His Arg Arg Ala Gln Lys Val Met Thr Arg Ser Ser Ser
 500 505 510
 Asp Ser Ser Tyr Met Ser Gly Ser Pro Gly Gly Ser Pro Gly Ser Gly
 515 520 525
 Ser Ala Glu Lys Pro Ser Ser Asp Val Asp Ile Ser Thr His Ser Pro
 530 535 540

Ser Leu Pro Leu Ala Arg Glu Pro Val Val Leu Ser Ile Ala Ser Ser
 545 550 555 560
 Arg Leu Pro Gln Glu Ser Pro Pro Leu Pro Glu Ser Arg Asp Ser His
 565 570 575
 Pro Pro Leu Arg Leu Lys Lys Ser Phe Glu Ile Leu Val Arg Lys Pro
 580 585 590
 Met Ser Asn Ile Ala Arg Pro Arg Ser Pro
 595 600

<210> 2531

<211> 218

<212> PRT

<213> Homo sapiens

<400> 2531

Met His Thr His Lys His Met Cys Ile Ser His Thr Arg Thr His Pro
 1 5 10 15
 Asn Thr Cys Ile Ser His Thr Cys Thr His Thr Asn Thr Cys Ile Ser
 20 25 30
 His Thr Cys Thr Gln Thr Cys Ile Ser His Thr Arg Thr His Thr Gln
 35 40 45
 Thr Arg Ala Tyr His Thr His Ala His Thr Gln Thr Arg Ala Tyr His
 50 55 60
 Thr Gln Thr His Val His Thr Tyr Leu Thr His Thr Cys Thr Cys Cys
 65 70 75 80
 Ala His Val His Thr His Val Val Val Cys Phe Pro Ala Thr His Thr
 85 90 95
 Leu Gly Leu His Trp Arg Leu Phe His Pro Ala Asn Val Asn Val Ser
 100 105 110
 Arg Leu Val Gly Ala Leu Cys Tyr Pro Val Gly Arg Ser His Gln Glu
 115 120 125
 Gln Ser Leu Pro Asn Val His Leu Arg Glu Glu Gly Cys Arg Gly Val
 130 135 140
 Phe Pro Ala Pro Ala Arg Trp Lys Gly Ser Pro Glu Thr Gly Thr Gln

145 150 155 160
 Tyr Leu Ser Met Arg Ser Leu Thr Ser Arg Gly Val Gly Lys Leu Asp
 165 170 175
 Arg Asp Ser Val Thr His Ser Val Leu Leu Pro Ala Asn Pro Val Cys
 180 185 190
 Pro Tyr Arg Ser Thr Arg Arg Ala Val Gly Gly Pro Pro Gly Gly Ser
 195 200 205
 Ala Ser Ala Ser Pro Ser His Leu Leu Pro
 210 215

<210> 2532

<211> 140

<212> PRT

<213> Homo sapiens

<400> 2532

Met Arg Gln Val Leu Arg Pro Val Phe Gln Val Leu Thr Gly Ala Leu
 1 5 10 15
 Gly Ala His Arg Arg Glu Tyr Gly Ser Ala Ala Thr Gly Thr Val His
 20 25 30
 Leu Pro Val Cys Gln Ala Gln Ser Met Asp Lys Pro His Ser Arg Ala
 35 40 45
 Val His Pro Gly Thr Met His Gly Gln Gln Glu Ser Arg Pro Ala Asp
 50 55 60
 Ala Lys Arg Ala Tyr Cys Gln Gly Lys Val Pro Ala Pro Ala His Ser
 65 70 75 80
 Leu Trp Ile Leu Gly Leu Trp Gly Leu Ser Trp Arg Val Ser Leu Trp
 85 90 95
 Phe Val Ser Gly Leu Gln Trp Trp Leu Thr Pro Leu Val Arg Lys His
 100 105 110
 Ser Trp Glu Val Phe Cys Gly Ser Lys His Val Ala Pro Ile Ile Thr
 115 120 125
 Gly Glu Gln Lys Ala Leu Asp Thr Pro Phe Gly Met
 130 135 140

<210> 2533

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2533

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Met Glu Lys Gly Arg Leu Ser Val Gly Asp His Val Ala Leu Val Tyr
  1             5             10             15
Pro Pro Gly Val Asp Leu Ile Ala Ala Phe Tyr Gly Cys Leu Tyr Cys
      20             25             30
Gly Cys Val Pro Val Thr Val Arg Pro Pro His Pro Gln Asn Leu Gly
      35             40             45
Thr Thr Leu Pro Thr Val Lys Met Ile Val Glu Val Gly Lys Ser Ala
      50             55             60
Cys Val Leu Thr Thr Gln Ala Val Thr Arg Leu Leu Arg Ser Lys Glu
      65             70             75             80
Ala Ala Ala Ala Val Asp Ile Arg Thr Trp Pro Thr Ile Leu Asp Thr
      85             90             95
Asp Asp Ile Pro Lys Lys Lys Ile Ala Ser Val Phe Arg Pro Pro Ser
      100            105            110
Pro Asp Val Leu Ala Tyr Leu Asp Phe Ser Val Ser Thr Thr Gly Ile
      115            120            125
Leu Ala Gly Val Lys Met Ser His Ala Ala Thr Ser Ala Leu Cys Arg
      130            135            140
Ser Ile Lys Leu Gln Cys Glu Leu Tyr Pro Ser Arg Gln Ile Ala Ile
      145            150            155            160
Cys Leu Asp Pro Tyr Cys Gly Leu Gly Phe Ala Leu Trp Cys Leu Cys
      165            170            175
Ser Val Tyr Ser Gly His Gln Ser Val Leu Val Pro Pro Leu Glu Leu
      180            185            190
Glu Ser Asn Val Ser Leu Trp Leu Ser Ala Val Ser Gln Tyr Lys Ala
      195            200            205
Arg Val Thr Phe Cys Ser Tyr Ser Val Met Glu Met Cys Thr Lys Gly
      210            215            220
Leu Gly Ala Gln Thr Gly Val Leu Arg Met Lys Gly Val Asn Leu Ser

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225 230 235 240
 Cys Val Arg Thr Cys Met Val Val Ala Glu Glu Arg Pro Arg Ile Ala
 245 250 255
 Leu Thr Gln Ser Phe Ser Lys Leu Phe Lys Asp Leu Gly Leu Pro Ala
 260 265 270
 Arg Ala Val Ser Thr Thr Phe Gly Cys Arg Val Asn Val Ala Ile Cys
 275 280 285
 Leu Gln Val Arg Cys Leu Gly Pro Ala Val Leu Glu Ser Trp Leu Leu
 290 295 300
 Ala Ala Trp Arg Pro Ser Phe Pro Val Val Asn Val Pro Phe Cys Ser
 305 310 315 320
 Arg Leu Ile Tyr Phe Ser Phe Ser Gly Pro Leu Ile Ser His Phe His
 325 330 335
 Val Thr Phe

<210> 2534

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2534

Met Ala Glu Glu Glu Lys Pro Ala Ala Leu Pro Glu Lys Glu Cys Gly
 1 5 10 15
 Ala Ala Lys Ser Ser Asp Gln Pro Lys Gly Leu Ser Lys Gly Gln Met
 20 25 30
 Glu Ser Ser Ala Glu Ala Gln Ile Val Pro Glu Glu Ser Ala Pro Ala
 35 40 45
 Gly Ala Pro His Glu Lys Ser Val Lys Glu Val Lys Glu Val Ser Pro
 50 55 60
 Glu Val Lys Thr Pro Ser Ser Ala Gly Glu Gly Val Ser Phe Ser Gly
 65 70 75 80
 Phe Ala Cys Val Leu Leu Gln Met Ile Ser Pro Val Ala Tyr Gln Pro
 85 90 95
 Asp Ala Phe Pro Thr Leu Phe Arg Tyr Phe Ile Ala Gly Ser Tyr Asp

100 105 110
 Asn Lys Ser Thr Val Val Gly Leu Met Cys Arg Glu Cys Gly Leu Arg
 115 120 125
 Lys Cys Cys Val Ala Ala Gly Phe Pro Val Leu Gln Leu Ile Ser Gly
 130 135 140
 Phe Pro Leu Pro
 145

<210> 2535
 <211> 171
 <212> PRT
 <213> Homo sapiens

<400> 2535
 Met Glu Pro Gly Pro Ala Leu Ala Trp Leu Leu Leu Leu Ser Leu Leu
 1 5 10 15
 Ala Asp Cys Leu Lys Ala Ala Gln Ser Arg Asp Phe Thr Val Lys Asp
 20 25 30
 Ile Ile Tyr Leu His Pro Ser Thr Thr Pro Tyr Pro Gly Gly Phe Lys
 35 40 45
 Cys Phe Thr Cys Glu Lys Ala Ala Asp Asn Tyr Glu Cys Asn Arg Trp
 50 55 60
 Ala Pro Asp Ile Tyr Cys Pro Arg Val Thr Arg Tyr Cys Tyr Thr Gln
 65 70 75 80
 His Thr Met Glu Val Thr Gly Asn Ser Ile Ser Val Thr Lys Arg Cys
 85 90 95
 Val Pro Leu Glu Glu Cys Leu Ser Thr Gly Cys Arg Asp Ser Glu His
 100 105 110
 Glu Gly His Lys Val Cys Thr Ser Cys Cys Glu Gly Asn Ile Cys Asn
 115 120 125
 Leu Pro Leu Pro Arg Asn Glu Thr Asp Ala Thr Phe Ala Thr Thr Ser
 130 135 140
 Pro Ile Asn Gln Thr Asn Gly His Pro Arg Cys Met Ser Val Ile Val
 145 150 155 160
 Ser Cys Leu Trp Leu Trp Leu Gly Leu Met Leu

165

170

<210> 2536

<211> 881

<212> PRT

<213> Homo sapiens

<400> 2536

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Met Pro Asn Ser Ala Ser Arg Asp Glu Phe Pro Cys Gly Phe Thr Ser
  1              5              10              15
Pro Ala Asn Arg Gly Ser Leu Ser Thr Asp Lys Asp Thr Ala Tyr Gly
      20              25              30
Ser Phe Gln Asn Gly His Gly Ile Lys Arg Glu Asp Ser Arg Gly Ser
      35              40              45
Leu Ile Pro Glu Gly Ala Thr Gly Phe Pro Asp Gln Gly Asn Thr Gly
      50              55              60
Glu Asn Thr Arg Gln Ser Ser Thr Arg Ser Ser Val Ser Gln Tyr Asn
      65              70              75              80
Arg Leu Asp Gln Tyr Glu Ile Arg Ser Leu Leu Met Cys Tyr Leu Tyr
      85              90              95
Ile Val Lys Met Ile Ser Glu Asp Thr Leu Leu Thr Tyr Trp Asn Lys
      100             105             110
Val Ser Pro Gln Glu Leu Ile Asn Ile Leu Ile Leu Leu Glu Val Cys
      115             120             125
Leu Phe His Phe Arg Tyr Met Gly Lys Arg Asn Ile Ala Arg Val His
      130             135             140
Asp Ala Trp Leu Ser Lys His Phe Gly Ile Asp Arg Lys Ser Gln Thr
      145             150             155             160
Met Pro Ala Leu Arg Asn Arg Ser Gly Val Met Gln Ala Arg Leu Gln
      165             170             175
His Leu Ser Ser Leu Glu Ser Ser Phe Thr Leu Asn His Ser Ser Thr
      180             185             190
Thr Thr Glu Ala Asp Ile Phe His Gln Ala Leu Leu Glu Gly Asn Thr
      195             200             205
Ala Thr Glu Val Ser Leu Thr Val Leu Asp Thr Ile Ser Phe Phe Thr

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210	215	220	
Gln Cys Phe Lys Thr	Gln Leu Leu Asn Asn Asp	Gly His Asn Pro Leu	
225	230	235	240
Met Lys Lys Val Phe Asp Ile His	Leu Ala Phe Leu Lys Asn Gly Gln		
	245	250	255
Ser Glu Val Ser Leu Lys His Val	Phe Ala Ser Leu Arg Ala Phe Ile		
	260	265	270
Ser Lys Phe Pro Ser Ala Phe Phe	Lys Gly Arg Val Asn Met Cys Ala		
	275	280	285
Ala Phe Cys Tyr Glu Val Leu Lys Cys Cys Thr	Ser Lys Ile Ser Ser		
290	295	300	
Thr Arg Asn Glu Ala Ser Ala Leu Leu Tyr	Leu Leu Met Arg Asn Asn		
305	310	315	320
Phe Glu Tyr Thr Lys Arg Lys Thr Phe	Leu Arg Thr His Leu Gln Ile		
	325	330	335
Ile Ile Ala Val Ser Gln Leu Ile Ala Asp Val	Ala Leu Ser Gly Gly		
	340	345	350
Ser Arg Phe Gln Glu Ser Leu Phe Ile Ile	Asn Asn Phe Ala Asn Ser		
	355	360	365
Asp Arg Pro Met Lys Ala Thr Ala Phe Pro	Ala Glu Val Lys Asp Leu		
370	375	380	
Thr Lys Arg Ile Arg Thr Val Leu Met Ala Thr	Ala Gln Met Lys Glu		
385	390	395	400
His Glu Lys Asp Pro Glu Met Leu Ile Asp	Leu Gln Tyr Ser Leu Ala		
	405	410	415
Lys Ser Tyr Ala Ser Thr Pro Glu Leu Arg	Lys Thr Trp Leu Asp Ser		
	420	425	430
Met Ala Lys Ile His Val Lys Asn Gly Asp	Phe Ser Glu Ala Ala Met		
	435	440	445
Cys Tyr Val His Val Ala Ala Leu Val	Ala Glu Phe Leu His Arg Lys		
450	455	460	
Lys Leu Phe Pro Asn Gly Cys Ser Ala Phe	Lys Lys Ile Thr Pro Asn		
465	470	475	480
Ile Asp Glu Glu Gly Ala Met Lys Glu Asp	Ala Gly Met Met Asp Val		
	485	490	495

His Tyr Ser Glu Glu Val Leu Leu Glu Leu Leu Glu Gln Cys Val Asp
 500 505 510
 Gly Leu Trp Lys Ala Glu Arg Tyr Glu Ile Ile Ser Glu Ile Ser Lys
 515 520 525
 Leu Ile Val Pro Ile Tyr Glu Lys Arg Arg Glu Phe Glu Lys Leu Thr
 530 535 540
 Gln Val Tyr Arg Thr Leu His Gly Ala Tyr Thr Lys Ile Leu Glu Val
 545 550 555 560
 Met His Thr Lys Lys Arg Leu Leu Gly Thr Phe Phe Arg Val Ala Phe
 565 570 575
 Tyr Gly Gln Ser Phe Phe Glu Glu Glu Asp Gly Lys Glu Tyr Ile Tyr
 580 585 590
 Lys Glu Pro Lys Leu Thr Gly Leu Ser Glu Ile Ser Leu Arg Leu Val
 595 600 605
 Lys Leu Tyr Gly Glu Lys Phe Gly Thr Glu Asn Val Lys Ile Ile Gln
 610 615 620
 Asp Ser Asp Lys Val Asn Ala Lys Glu Leu Asp Pro Lys Tyr Ala His
 625 630 635 640
 Ile Gln Val Thr Tyr Val Lys Pro Tyr Phe Asp Asp Lys Glu Leu Thr
 645 650 655
 Glu Arg Lys Thr Glu Phe Glu Arg Asn His Asn Ile Ser Gly Phe Val
 660 665 670
 Phe Glu Ala Pro Tyr Thr Leu Ser Gly Lys Lys Gln Gly Cys Ile Glu
 675 680 685
 Glu Gln Cys Lys Arg Arg Thr Ile Leu Thr Thr Ser Asn Ser Phe Pro
 690 695 700
 Tyr Val Lys Lys Arg Ile Pro Ile Asn Cys Glu Gln Gln Ile Asn Leu
 705 710 715 720
 Lys Pro Ile Asp Val Ala Thr Asp Glu Ile Lys Asp Lys Thr Ala Glu
 725 730 735
 Leu Gln Lys Leu Cys Ser Ser Thr Asp Val Asp Met Ile Gln Leu Gln
 740 745 750
 Leu Lys Leu Gln Gly Cys Val Ser Val Gln Val Asn Ala Gly Pro Leu
 755 760 765
 Ala Tyr Ala Arg Ala Phe Leu Asn Asp Ser Gln Ala Ser Lys Tyr Pro
 770 775 780

Pro Lys Lys Val Ser Glu Leu Lys Asp Met Phe Arg Lys Phe Ile Gln
 785 790 795 800
 Ala Cys Ser Ile Ala Leu Glu Leu Asn Glu Arg Leu Ile Lys Glu Asp
 805 810 815
 Gln Val Glu Tyr His Glu Gly Leu Lys Ser Asn Phe Arg Asp Met Val
 820 825 830
 Lys Glu Leu Ser Asp Ile Ile His Glu Gln Ile Leu Gln Glu Asp Thr
 835 840 845
 Met His Ser Pro Trp Met Ser Asn Thr Leu His Val Phe Cys Ala Ile
 850 855 860
 Ser Gly Thr Ser Ser Asp Arg Gly Tyr Gly Ser Pro Arg Tyr Ala Glu
 865 870 875 880
 Val

<210> 2537

<211> 580

<212> PRT

<213> Homo sapiens

<400> 2537

Met His Leu Ser Ala Val Phe Asn Ala Leu Leu Val Ser Val Leu Ala
 1 5 10 15
 Ala Val Leu Trp Lys His Val Arg Leu Arg Glu His Ala Ala Thr Leu
 20 25 30
 Glu Glu Glu Leu Ala Leu Ser Arg Gln Ala Thr Glu Pro Ala Pro Ala
 35 40 45
 Leu Arg Ile Asp Tyr Pro Lys Ala Leu Gln Ile Leu Met Glu Gly Gly
 50 55 60
 Thr His Met Val Cys Thr Gly Arg Thr His Thr Asp Arg Ile Cys Arg
 65 70 75 80
 Phe Lys Trp Leu Cys Tyr Ser Asn Glu Ala Glu Glu Phe Ile Phe Phe
 85 90 95
 His Gly Asn Thr Ser Val Met Leu Pro Asn Leu Gly Ser Arg Arg Phe
 100 105 110

Gln Pro Ala Leu Leu Asp Leu Ser Thr Val Glu Asp His Asn Thr Gln
 115 120 125
 Tyr Phe Asn Phe Val Glu Leu Pro Ala Ala Ala Leu Arg Phe Met Pro
 130 135 140
 Lys Pro Val Phe Val Pro Asp Val Ala Leu Ile Ala Asn Arg Phe Asn
 145 150 155 160
 Pro Asp Asn Leu Met His Val Phe His Asp Asp Leu Leu Pro Leu Phe
 165 170 175
 Tyr Thr Leu Arg Gln Phe Pro Gly Leu Ala His Glu Ala Arg Leu Phe
 180 185 190
 Phe Met Glu Gly Trp Gly Glu Gly Ala His Phe Asp Leu Tyr Lys Leu
 195 200 205
 Leu Ser Pro Lys Gln Pro Leu Leu Arg Ala Gln Leu Lys Thr Leu Gly
 210 215 220
 Arg Leu Leu Cys Phe Ser His Ala Phe Val Gly Leu Ser Lys Ile Thr
 225 230 235 240
 Thr Trp Tyr Gln Tyr Gly Phe Val Gln Pro Gln Gly Pro Lys Ala Asn
 245 250 255
 Ile Leu Val Ser Gly Asn Glu Ile Arg Gln Phe Ala Arg Phe Met Thr
 260 265 270
 Glu Lys Leu Asn Val Ser His Thr Gly Val Pro Leu Gly Glu Glu Tyr
 275 280 285
 Ile Leu Val Phe Ser Arg Thr Gln Asn Arg Leu Ile Leu Asn Glu Ala
 290 295 300
 Glu Leu Leu Leu Ala Leu Ala Gln Glu Phe Gln Met Lys Thr Val Thr
 305 310 315 320
 Val Ser Leu Glu Asp His Thr Phe Ala Asp Val Val Arg Leu Val Ser
 325 330 335
 Asn Ala Ser Met Leu Val Ser Met His Gly Ala Gln Leu Val Thr Thr
 340 345 350
 Leu Phe Leu Pro Arg Gly Ala Thr Val Val Glu Leu Phe Pro Tyr Ala
 355 360 365
 Val Asn Pro Asp His Tyr Thr Pro Tyr Lys Thr Leu Ala Met Leu Pro
 370 375 380
 Gly Met Asp Leu Gln Tyr Val Ala Trp Arg Asn Met Met Pro Glu Asn
 385 390 395 400

Thr Val Thr His Pro Glu Arg Pro Trp Asp Gln Gly Gly Ile Thr His
 405 410 415
 Leu Asp Arg Ala Glu Gln Ala Arg Ile Leu Gln Ser Arg Glu Val Pro
 420 425 430
 Arg His Leu Cys Cys Arg Asn Pro Glu Trp Leu Phe Arg Ile Tyr Gln
 435 440 445
 Asp Thr Lys Val Asp Ile Pro Ser Leu Ile Gln Thr Ile Arg Arg Val
 450 455 460
 Val Lys Gly Arg Pro Gly Pro Arg Lys Gln Lys Trp Thr Val Gly Leu
 465 470 475 480
 Tyr Pro Gly Lys Val Arg Glu Ala Arg Cys Gln Ala Ser Val His Gly
 485 490 495
 Ala Ser Glu Ala Arg Leu Thr Val Ser Trp Gln Ile Pro Trp Asn Leu
 500 505 510
 Lys Tyr Leu Lys Val Arg Glu Val Lys Tyr Glu Val Trp Leu Gln Glu
 515 520 525
 Gln Gly Glu Asn Thr Tyr Val Pro Tyr Ile Leu Ala Leu Gln Asn His
 530 535 540
 Thr Phe Thr Glu Asn Ile Lys Pro Phe Thr Thr Tyr Leu Val Trp Val
 545 550 555 560
 Arg Cys Ile Phe Asn Lys Ile Leu Leu Gly Pro Phe Ala Asp Val Leu
 565 570 575
 Val Cys Asn Thr
 580

<210> 2538

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2538

Met Ser Leu Met Ser Val Thr Met Ser Phe Leu Ile Cys Ala Pro Gly
 1 5 10 15
 Glu Gly Gly Cys Gly Glu Asp Pro Val Cys Arg His Cys Val Pro Trp
 20 25 30

Gln Ser Arg Gly Ala Pro Cys Gly Trp Pro Ala Lys Val Tyr Val Pro
 35 40 45
 Leu Arg Ala Glu Gly Lys Arg Gln Pro Arg Ser Cys Ala Ser Arg His
 50 55 60
 Leu Met Gly His Val Ser Gln Ile Cys Lys Ser Lys Ile Leu Ala Ser
 65 70 75 80
 Tyr Leu Leu Cys Arg Ile Asn Asn Phe Asn Asn Asn Gly Asn Trp Val
 85 90 95
 Met Asp Gly Thr Ala Ala Ile Arg Leu
 100 105

<210> 2539

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2539

Met Ala Glu Glu Gly Ser Ala Ala Gly Gly Val Met Asp Ile Asn Thr
 1 5 10 15
 Val Leu Gln Glu Val Leu Lys Thr Ala Leu Ile His Asp Gly Leu Ala
 20 25 30
 Tyr Glu Ile Cys Lys Ala Ala Lys Ala Ser Asp Lys Cys Gln Ala His
 35 40 45
 Leu Cys Val Leu Cys Val Leu Ala Ser Asn Cys Asp Glu Pro Met Tyr
 50 55 60
 Val Lys Leu Val Glu Ala Leu Cys Ala Glu His Gln Ile Asn Leu Ile
 65 70 75 80
 Lys Val Asp Asp Gln Lys Leu Gly Glu Ser Val Gly Leu Cys Lys Thr
 85 90 95
 Asp Arg Glu Gly Lys Pro Cys Lys Val Val Gly
 100 105

<210> 2540

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2540

```

Met Phe Ser Val Leu Ser Tyr Gly Arg Leu Val Ala Arg Ala Val Leu
  1             5             10             15
Gly Gly Leu Ser Gln Thr Asp Pro Arg Ala Gly Gly Gly Gly Gly Gly
      20             25             30
Asp Tyr Gly Leu Val Thr Ala Gly Cys Gly Phe Gly Lys Asp Phe Arg
      35             40             45
Lys Gly Leu Leu Lys Lys Gly Ala Cys Tyr Gly Asp Asp Ala Cys Phe
      50             55             60
Val Ala Arg His Arg Ser Ala Asp Val Leu Gly Val Ala Asp Gly Val
      65             70             75             80
Gly Gly Trp Arg Asp Tyr Gly Val Asp Pro Ser Gln Phe Ser Gly Thr
      85             90             95
Leu Met Arg Thr Cys Glu Arg Leu Val Lys Glu Gly Arg Phe Val Pro
      100            105            110
Ser Asn Pro Ile Gly Ile Leu Thr Thr Ser Tyr Cys Glu Leu Leu Gln
      115            120            125
Asn Lys Val Pro Leu Leu Gly Ser Ser Thr Ala Cys Ile Val Val Leu
      130            135            140
Asp Arg Thr Ser His Arg Leu His Thr Ala Asn Leu Gly Asp Ser Gly
      145            150            155            160
Phe Leu Val Val Arg Gly Gly Glu Val Val His Arg Ser Asp Glu Gln
      165            170            175
Gln His Tyr Phe Asn Thr Pro Phe Gln Leu Ser Ile Ala Pro Pro Glu
      180            185            190
Ala Glu Gly Val Val Leu Ser Asp Ser Pro Asp Ala Ala Asp Ser Thr
      195            200            205
Ser Phe Asp Val Gln Leu Gly Asp Ile Ile Leu Thr Ala Thr Asp Gly
      210            215            220
Leu Phe Asp Asn Met Pro Asp Tyr Met Ile Leu Gln Glu Leu Lys Lys
      225            230            235            240
Leu Lys Asn Ser Asn Tyr Glu Ser Ile Gln Gln Thr Ala Arg Ser Ile
      245            250            255

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Ala Glu Gln Ala His Glu Leu Ala Tyr Asp Pro Asn Tyr Met Ser Pro
 260 265 270
 Phe Ala Gln Phe Ala Cys Asp Asn Gly Leu Asn Val Arg Gly Gly Lys
 275 280 285
 Pro Asp Asp Ile Thr Val Leu Leu Ser Ile Val Ala Glu Tyr Thr Asp
 290 295 300

<210> 2541

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2541

Met Lys Ser Leu Leu Ser Pro Arg Leu Glu Cys Ser Gly Val Ile Ser
 1 5 10 15
 Ala His Cys Asn Leu Cys Leu Leu Ser Ser Ser Asp Ser Leu Ala Ser
 20 25 30
 Ala Ser His Val Ala Gly Ile Thr Gly Ala His His Gln Thr Trp Leu
 35 40 45
 Ile Ser Ser Arg Asp Arg Val Ser Pro Cys Trp Pro Gly Trp Ser Leu
 50 55 60
 Thr Pro Asp Leu Arg Arg Ser Ala Cys Leu Gly Leu Ser Lys Cys Trp
 65 70 75 80
 Asp Tyr Arg His Glu Pro Pro Arg Thr Ala Gly Lys Gly Leu Leu Asp
 85 90 95
 Gln Asn Ile Gln
 100

<210> 2542

<211> 376

<212> PRT

<213> Homo sapiens

<400> 2542

Met	Asn	Thr	Ile	Asp	Met	Tyr	Asn	Val	Thr	Arg	Pro	Ile	Glu	Lys	Leu
1				5					10					15	
Gln	Asn	Pro	Ile	Val	Thr	Gln	Phe	Phe	Pro	Ser	Val	Met	Leu	Trp	Gly
			20					25					30		
Phe	Thr	Val	Ile	Leu	Pro	Leu	Ile	Val	Tyr	Phe	Ser	Ala	Phe	Leu	Glu
		35					40					45			
Ala	His	Trp	Thr	Arg	Ser	Ser	Gln	Asn	Leu	Val	Met	Val	His	Lys	Cys
	50					55					60				
Tyr	Ile	Phe	Leu	Val	Phe	Met	Val	Val	Ile	Leu	Pro	Ser	Met	Gly	Leu
65					70				75					80	
Thr	Ser	Leu	Asp	Val	Phe	Leu	Arg	Trp	Leu	Phe	Asp	Ile	Tyr	Tyr	Leu
			85					90					95		
Glu	Gln	Ala	Ser	Ile	Arg	Phe	Gln	Cys	Val	Phe	Leu	Pro	Asp	Asn	Gly
		100					105					110			
Ala	Phe	Phe	Val	Asn	Tyr	Val	Ile	Thr	Ala	Ala	Leu	Leu	Gly	Thr	Gly
	115					120					125				
Met	Glu	Leu	Leu	Arg	Leu	Gly	Ser	Leu	Phe	Cys	Tyr	Ser	Thr	Arg	Leu
	130				135				140						
Phe	Phe	Ser	Arg	Ser	Glu	Pro	Glu	Arg	Val	Asn	Ile	Arg	Lys	Asn	Gln
145				150				155					160		
Ala	Ile	Asp	Phe	Gln	Phe	Gly	Arg	Glu	Tyr	Ala	Trp	Met	Met	Asn	Val
			165					170					175		
Phe	Ser	Val	Val	Met	Ala	Tyr	Ser	Ile	Thr	Cys	Pro	Ile	Ile	Val	Pro
			180					185					190		
Phe	Gly	Leu	Leu	Tyr	Leu	Cys	Met	Lys	His	Leu	Ala	Asp	Arg	Tyr	Asn
	195					200					205				
Met	Tyr	Tyr	Ser	Phe	Ala	Pro	Thr	Lys	Leu	Asn	Glu	Gln	Ile	His	Met
	210				215				220						
Ala	Ala	Val	Ser	Gln	Ala	Ile	Phe	Ala	Pro	Leu	Leu	Gly	Leu	Phe	Trp
225				230				235					240		
Met	Leu	Phe	Phe	Ser	Ile	Leu	Arg	Leu	Gly	Ser	Leu	His	Ala	Ile	Thr
			245					250				255			
Ile	Phe	Ser	Leu	Ser	Thr	Leu	Leu	Ile	Ala	Met	Val	Ile	Ala	Phe	Val
	260							265				270			
Gly	Ile	Phe	Leu	Gly	Lys	Leu	Arg	Met	Val	Ala	Asp	Tyr	Glu	Pro	Glu

275 280 285
 Glu Glu Glu Ile Gln Thr Val Phe Asp Met Glu Pro Ser Ser Thr Ser
 290 295 300
 Ser Thr Pro Thr Ser Leu Leu Tyr Val Ala Thr Val Leu Gln Glu Pro
 305 310 315 320
 Glu Leu Asn Leu Thr Pro Ala Ser Ser Pro Ala Arg His Thr Tyr Gly
 325 330 335
 Thr Met Asn Asn Gln Pro Glu Glu Gly Glu Glu Glu Ser Gly Leu Arg
 340 345 350
 Gly Phe Ala Arg Glu Leu Asp Ser Ala Gln Phe Gln Glu Gly Leu Glu
 355 360 365
 Leu Glu Gly Gln Asn Gln Tyr His
 370 375

<210> 2543

<211> 210

<212> PRT

<213> Homo sapiens

<400> 2543

Met Lys Met Ile Leu Ala Trp Arg Leu Pro Leu Ile Tyr Pro His Val
 1 5 10 15
 Ser Leu Phe Ile Pro Gln Leu Ser Gly Gln Thr Asn Ile His Leu Ser
 20 25 30
 Lys Asn Phe Phe Leu Thr Asn Arg Ala Arg Glu Arg Ser Asp Thr Phe
 35 40 45
 Ile Asn Leu Arg Glu Val Leu Asn Arg Phe Lys Leu Pro Pro Gly Glu
 50 55 60
 Tyr Ile Leu Val Pro Ser Thr Phe Glu Pro Asn Lys Asp Gly Asp Phe
 65 70 75 80
 Cys Ile Arg Val Phe Ser Glu Lys Lys Ala Asp Tyr Gln Ala Val Asp
 85 90 95
 Asp Glu Ile Glu Ala Asn Leu Glu Glu Phe Asp Ile Ser Glu Asp Asp
 100 105 110
 Ile Asp Asp Gly Phe Arg Arg Leu Phe Ala Gln Leu Ala Gly Glu Asp

115	120	125
Ala Glu Ile Ser Ala Phe Glu Leu Gln Thr Ile Leu Arg Arg Val Leu		
130	135	140
Ala Lys Arg Gln Asp Ile Lys Ser Asp Gly Phe Ser Ile Glu Thr Cys		
145	150	155
Lys Ile Met Val Asp Met Leu Asp Ser Asp Gly Ser Gly Lys Leu Gly		
165	170	175
Leu Lys Glu Phe Tyr Ile Leu Trp Thr Lys Ile Gln Lys Tyr Gln Val		
180	185	190
Arg Ser Gln Arg Cys Gly Trp Ile Cys Val Gly Lys His Ser Val His		
195	200	205
Met Leu		
210		

<210> 2544

<211> 563

<212> PRT

<213> Homo sapiens

<400> 2544

Met Ala Pro Val Phe Val Gly Thr Pro Tyr Tyr Gly Tyr Val Tyr Glu		
1	5	10
Asp Thr Leu Pro Gly Ser Glu Val Leu Lys Val Val Ala Met Asp Gly		
20	25	30
Asp Arg Gly Lys Pro Asn Arg Ile Leu Tyr Ser Leu Val Asn Gly Asn		
35	40	45
Asp Gly Ala Phe Glu Ile Asn Glu Thr Ser Gly Ala Ile Ser Ile Thr		
50	55	60
Gln Ser Pro Ala Gln Leu Gln Arg Glu Val Tyr Glu Leu His Val Gln		
65	70	75
Val Thr Glu Met Ser Pro Ala Gly Ser Pro Ala Ala Gln Ala Thr Val		
85	90	95
Pro Val Thr Ile Arg Ile Val Asp Leu Asn Asn His Pro Pro Thr Phe		
100	105	110
Tyr Gly Glu Ser Gly Pro Gln Asn Arg Phe Glu Leu Ser Met Asn Glu		

115	120	125		
His Pro Pro Gln Gly Glu Ile	Leu Arg Gly Leu Lys Ile	Thr Val Asn		
130	135	140		
Asp Ser Asp Gln Gly Ala Asn	Ala Lys Phe Asn Leu Gln	Leu Val Gly		
145	150	155	160	
Pro Arg Gly Ile Phe Arg	Val Val Pro Gln Thr	Val Leu Asn Glu	Ala	
165	170	175		
Gln Val Thr Ile Ile Val	Glu Asn Ser Ala Ala Ile	Asp Phe Glu Lys		
180	185	190		
Ser Lys Val Leu Thr Phe	Lys Ala Val Asp Pro Asp	Thr Gly Pro Trp		
195	200	205		
Gly Glu Val Lys Tyr Ser	Thr Tyr Gly Thr Gly	Ala Asp Leu Phe Leu		
210	215	220		
Ile His Pro Ser Thr Gly	Leu Ile Tyr Thr Gln	Pro Trp Ala Ser Leu		
225	230	235	240	
Asp Ala Glu Ala Thr Ala	Arg Tyr Asn Phe Tyr	Val Lys Ala Glu Asp		
245	250	255		
Met Glu Gly Lys Tyr Ser	Val Ala Glu Val Phe	Ile Thr Leu Leu Asp		
260	265	270		
Val Asn Asp His Pro Pro	Gln Phe Gly Lys Ser	Val Gln Lys Lys Thr		
275	280	285		
Met Val Leu Gly Thr Pro	Val Lys Ile Glu Ala	Ile Asp Glu Asp Ala		
290	295	300		
Glu Glu Pro Asn Asn Leu	Val Asp Tyr Ser Ile	Thr His Ala Glu Pro		
305	310	315	320	
Ala Asn Val Phe Asp Ile	Asn Ser His Thr Gly	Glu Ile Trp Leu Lys		
325	330	335		
Asn Ser Ile Arg Ser Leu	Asp Ala Leu His Asn	Ile Thr Pro Gly Arg		
340	345	350		
Asp Cys Leu Trp Ser Leu	Glu Val Gln Ala Lys	Asp Arg Gly Ser Pro		
355	360	365		
Ser Phe Ser Thr Thr Ala	Leu Leu Lys Ile Asp	Ile Thr Asp Ala Glu		
370	375	380		
Thr Leu Ser Arg Ser Pro	Met Ala Ala Phe Leu	Ile Gln Thr Lys Asp		
385	390	395	400	
Asn Pro Met Lys Ala Val	Gly Val Leu Ala Gly	Thr Met Ala Thr Val		

405 410 415
 Val Ala Ile Thr Val Leu Ile Ser Thr Ala Thr Phe Trp Arg Asn Lys
 420 425 430
 Lys Ser Asn Met Val Leu Pro Met Arg Arg Val Leu Arg Lys Arg Pro
 435 440 445
 Ser Pro Ala Pro Arg Thr Ile Arg Ile Glu Trp Leu Lys Ser Lys Ser
 450 455 460
 Thr Lys Ala Ala Thr Lys Phe Met Leu Lys Glu Lys Pro Pro Asn Glu
 465 470 475 480
 Asn Cys Asn Asn Asn Ser Pro Glu Ser Ser Leu Leu Pro Arg Ala Pro
 485 490 495
 Ala Leu Pro Pro Pro Pro Ser Val Ala Pro Ser Thr Gly Ala Ala Gln
 500 505 510
 Trp Thr Val Pro Thr Val Ser Gly Ser Leu Thr Pro Gln Pro Thr Gln
 515 520 525
 Pro Pro Pro Lys Pro Lys Thr Met Gly Ser Pro Val Gln Ser Thr Leu
 530 535 540
 Ile Ser Glu Leu Lys Gln Lys Phe Glu Lys Lys Ser Val His Asn Lys
 545 550 555 560
 Ala Tyr Phe

<210> 2545

<211> 214

<212> PRT

<213> Homo sapiens

<400> 2545

Met Pro Pro Phe Pro Arg Gly Leu Lys Thr His Tyr Val Asp Leu Val
 1 5 10 15
 Pro Gly Ser Val Arg Arg Trp Pro Gln Leu Trp Gly Trp Ser Met Leu
 20 25 30
 Pro Thr His Ser Ser Gly Lys Trp Gly Pro Arg His Arg Gly Ser Ala
 35 40 45
 Pro Thr Ala Ala Pro Gly Ala Leu Val Phe Trp Glu Gly Leu Gly Val

50 55 60
 Cys Thr Arg Arg Pro Gly Pro Gly Thr Ser Pro Gly Ala Gly Ser Gln
 65 70 75 80
 Gly His Arg Val Cys Gly Lys Arg Cys Gly Gly Arg Ala Gly His Arg
 85 90 95
 Arg Val Ser Arg Arg Arg Leu Gln Ala Gly Leu Ser Gln Ser Arg Arg
 100 105 110
 Arg Gly Ile Pro Ser Arg Thr Gly Val Leu Ser Pro Thr Ala Val Ile
 115 120 125
 Ser Ser Arg Ser Gly Arg Gly Ser Lys Gln Asn Arg Leu Arg Glu Ala
 130 135 140
 Gly Leu Gly Gln Val Gly Gly Ala Pro Pro Cys Met Thr Ala Thr Val
 145 150 155 160
 Gly Ala Phe Arg Arg Leu Thr Ala Val Gly Ala Ser Gly Glu Lys Arg
 165 170 175
 Gly Gly Thr Ala Val Ser Ser Cys Gly Ala Ala Ser Asn Trp His Pro
 180 185 190
 Gly Thr Gly Pro Val Gln Arg Arg His Leu Gln Arg Ala Gly Gln Pro
 195 200 205
 Gly Ala Gly Ala Cys Ala
 210

<210> 2546

<211> 893

<212> PRT

<213> Homo sapiens

<400> 2546

Met Leu Phe Pro Gln Gly Ala His Leu Val Pro Gln Ala Arg Val His
 1 5 10 15
 Pro Ser Gln Met Glu Ile Ser Glu Thr Val Glu Lys Val Ile Leu Pro
 20 25 30
 Pro Arg Pro Val Leu Asn Asp Val Ser Ala Ala Leu Gln Lys Leu Cys
 35 40 45
 Gly Glu Val Trp Leu Ser Tyr Pro Ala Gly Arg Glu Val Gly Pro Gly

50	55	60
Glu Val Asn Pro Glu Phe Pro Glu Ala Val Gln Pro Val Cys Ser Pro		
65	70	75
Leu Asn Pro Pro Gly Val Ile Ser Pro Trp Ala Thr Met Asp Thr Ile		
85	90	95
Val Pro Asp Arg Lys Asp Phe Tyr Ser Ser Asn Val Val Pro Asp Lys		
100	105	110
Thr His Glu Val Gly Ser Tyr Leu Ala Ala Gln Met Ser Pro Ser Asp		
115	120	125
Gln Thr Leu Ser Ser Phe Ala Ser Ile Val Ala Gln Tyr Gly Lys Gly		
130	135	140
Leu Pro Gln Glu Val Glu Glu Ile Val Arg Glu Thr Ile Val Gln Pro		
145	150	155
Lys Ser Glu Phe Leu Glu Phe Ser Ala Gly Leu Glu Lys Leu Leu Lys		
165	170	175
Glu Glu Thr Glu Thr Phe Pro Ser Lys Tyr Glu Ser Asp Thr Gly Asn		
180	185	190
Leu Ser Pro Ser Lys Leu Ile Gly Ser Thr Glu Glu Pro Arg Arg Ala		
195	200	205
Thr Ser Glu Cys His Pro Glu Glu Leu Lys Glu Thr Val Glu Lys Ala		
210	215	220
Glu Ala Pro Leu Ile Thr Glu Ser Ala Phe Asp Ala Gly Phe Glu Lys		
225	230	235
Leu Leu Lys Glu Ile Thr Glu Ala Pro Pro Tyr Gln Pro Gln Val Ser		
245	250	255
Val Arg Glu Glu Thr His Glu Lys Glu Ser Ser Gln Ser Glu Gln Thr		
260	265	270
Arg Phe Leu Gly Thr Val Pro His Phe Tyr Arg Ala Ala Ser Gln Thr		
275	280	285
Ser Glu Met Lys Asp Lys Ser Asn Gly Leu Glu Ser Gln Val Asn Gln		
290	295	300
Cys Asp Lys Met Leu Gly Gly Asp Ala Leu Val Thr Asp Leu Leu Val		
305	310	315
Asp Phe Cys Gly Ser Arg Ser Gly Val Glu Ile Pro Arg Thr Pro Gln		
325	330	335
Leu Tyr Val Ala His Glu Ile Gly Thr Ile Lys Thr Val Thr Pro Pro		

340	345	350
Glu Asp Arg Asp Ser Glu Ser Gly Val Ala Gly Gly Gln Gly Thr Leu		
355	360	365
Gln Glu Pro Gly Phe Gly Glu Ala Ser Glu Ala Ile Ser Val Ser Arg		
370	375	380
Asn Arg Gln Pro Ile Pro Leu Leu Met Asn Lys Glu Asn Ser Thr Lys		
385	390	395
Thr Ser Lys Val Glu Leu Thr Leu Ala Ser Pro Tyr Met Lys Gln Glu		
405	410	415
Lys Glu Glu Glu Lys Glu Gly Phe Ser Glu Ser Asp Phe Ser Asp Gly		
420	425	430
Asn Thr Ser Ser Asn Ala Glu Ser Trp Arg Asn Pro Ser Ser Ser Glu		
435	440	445
Glu Glu Pro Ser Pro Val Leu Lys Thr Leu Glu Arg Ser Ala Ala Arg		
450	455	460
Lys Met Pro Ser Lys Ser Leu Glu Asp Ile Ser Ser Asp Ser Ser Asn		
465	470	475
Gln Ala Lys Val Asp Asn Gln Pro Glu Glu Leu Val Arg Ser Ala Glu		
485	490	495
Asp Val Ser Thr Val Pro Thr Gln Pro Asp Asn Pro Phe Ser His Pro		
500	505	510
Asp Lys Leu Lys Arg Met Ser Lys Ser Val Pro Ala Phe Leu Gln Asp		
515	520	525
Glu Ser Asp Asp Arg Glu Thr Asp Thr Ala Ser Glu Ser Ser Tyr Gln		
530	535	540
Leu Ser Arg His Lys Lys Ser Pro Ser Ser Leu Thr Asn Leu Ser Ser		
545	550	555
Ser Ser Gly Met Thr Ser Leu Ser Ser Val Ser Gly Ser Val Met Ser		
565	570	575
Val Tyr Ser Gly Asp Phe Gly Asn Leu Glu Val Lys Gly Asn Ile Gln		
580	585	590
Phe Ala Ile Glu Tyr Val Glu Ser Leu Lys Glu Leu His Val Phe Val		
595	600	605
Ala Gln Cys Lys Asp Leu Ala Ala Ala Asp Val Lys Lys Gln Arg Ser		
610	615	620
Asp Pro Tyr Val Lys Ala Tyr Leu Leu Pro Asp Lys Gly Lys Met Gly		

625	630	635	640
Lys Lys Lys Thr Leu Val Val Lys Lys Thr Leu Asn Pro Val Tyr Asn			
	645	650	655
Glu Ile Leu Arg Tyr Lys Ile Glu Lys Gln Ile Leu Lys Thr Gln Lys			
	660	665	670
Leu Asn Leu Ser Ile Trp His Arg Asp Thr Phe Lys Arg Asn Ser Phe			
	675	680	685
Leu Gly Glu Val Glu Leu Asp Leu Glu Thr Trp Asp Trp Asp Asn Lys			
	690	695	700
Gln Asn Lys Gln Leu Arg Trp Tyr Pro Leu Lys Arg Lys Thr Ala Pro			
705	710	715	720
Val Ala Leu Glu Ala Glu Asn Arg Gly Glu Met Lys Leu Ala Leu Gln			
	725	730	735
Tyr Val Pro Glu Pro Val Pro Gly Lys Lys Leu Pro Thr Thr Gly Glu			
	740	745	750
Val His Ile Trp Val Lys Glu Cys Leu Asp Leu Pro Leu Leu Arg Gly			
	755	760	765
Ser His Leu Asn Ser Phe Val Lys Cys Thr Ile Leu Pro Asp Thr Ser			
	770	775	780
Arg Lys Ser Arg Gln Lys Thr Arg Ala Val Gly Lys Thr Thr Asn Pro			
785	790	795	800
Ile Phe Asn His Thr Met Val Tyr Asp Gly Phe Arg Pro Glu Asp Leu			
	805	810	815
Met Glu Ala Cys Val Glu Leu Thr Val Trp Asp His Tyr Lys Leu Thr			
	820	825	830
Asn Gln Phe Leu Gly Gly Leu Arg Ile Gly Phe Gly Thr Gly Lys Ser			
	835	840	845
Tyr Gly Thr Glu Val Asp Trp Met Asp Ser Thr Ser Glu Glu Val Ala			
	850	855	860
Leu Trp Glu Lys Met Val Asn Ser Pro Asn Thr Trp Ile Glu Ala Thr			
865	870	875	880
Leu Pro Leu Arg Met Leu Leu Ile Ala Lys Ile Ser Lys			
	885	890	

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2547

Met Met Thr Gly Cys Gly Leu Gly Pro Val Val Gly Pro Ser Pro Ala
 1 5 10 15
 Ser Asp His Ser Ala Leu Leu Pro Leu Gly Cys Lys Cys Ser Cys Arg
 20 25 30
 Leu Ala Cys Ser Cys Leu Leu Ser Leu Pro Gly Pro Leu Gly Leu Leu
 35 40 45
 His Leu Pro Leu Glu Arg Cys Pro Pro Ser Ala Cys Trp Arg Ser Arg
 50 55 60
 His Cys Cys Ser Pro Thr Glu Arg Ser Ser Ser Arg Thr His Leu Gly
 65 70 75 80
 His Leu Gly Trp Asn Ser Phe Pro Tyr Asp Phe Pro Ser Glu Glu Glu
 85 90 95
 Thr Pro Ser Asp Val Leu Cys Leu Leu Thr Glu Gln Pro Gly Gly Gln
 100 105 110
 Ala Ser Leu Gln Phe Leu Leu Gly Ala Pro Glu Ala Met Leu Ser Leu
 115 120 125
 Gly Ser Pro Ser Leu Ser Arg Val Ala Val Arg Val Pro Gly Arg Lys
 130 135 140
 Arg Pro Gly Arg Leu Glu Arg Ala Gly Val Ala Ser Trp Arg Gln Arg
 145 150 155 160
 Val

<210> 2548

<211> 165

<212> PRT

<213> Homo sapiens

<400> 2548

Met Ser His Val Ile Trp Thr Leu Lys Met Glu Cys Ser Glu Thr His
 1 5 10 15
 Val Gln Gly Ser Cys Ala Lys Leu Met Ser Arg Thr Gly Leu Leu Met
 20 25 30
 Lys Leu Leu Ser Glu Gln Gln Glu Ala Lys Ala Leu Asn Val Glu Trp
 35 40 45
 Asp Thr Asp Gln Gln Lys Thr Asn Tyr Ile Asn Glu Asn Met Glu Gln
 50 55 60
 Asn Glu Gln Lys Glu Gln Lys Ser Ser Glu Leu Met Lys Glu Val Pro
 65 70 75 80
 Gly Tyr Asp Tyr Lys Asn Lys Leu Ile Phe Ala Ile Ser Val Thr Val
 85 90 95
 Ile Leu Ile Ile Leu Ile Ile Ile Phe Cys Phe Ile Glu Val Lys Thr
 100 105 110
 Ile Ile Asn Ser Gly Phe Gln Asn Thr Ile Leu Cys Leu Cys Gly Phe
 115 120 125
 Arg Ile His Lys Leu Lys Thr Asn Val Thr Phe Pro Leu Asp Ile Leu
 130 135 140
 Leu Leu Ser Phe Lys Ala Glu Val Cys Phe Val Leu Leu Leu Gln Cys
 145 150 155 160
 Ile Phe Gln Asp Cys
 165

<210> 2549

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2549

Met Asn Asn Val Ser Leu Asp Ser Leu Tyr Ala Lys Val Phe Ile Leu
 1 5 10 15
 Asn Met Cys Pro Lys Ile Tyr Ala Leu Thr Asp Val Ile Lys Ile Val
 20 25 30
 Gln Glu Ile Asn Leu Ser Ile Thr Tyr Phe Val Cys Thr Thr Val Ser
 35 40 45

Tyr Ser Ala Leu Lys Trp Ser Phe Ile Thr Lys Ala Trp Thr Leu Leu
 50 55 60
 Gln Gln Ser Arg Gly Leu Leu Asn Ser Asp Leu Arg Ser Phe Val Cys
 65 70 75 80
 Leu Ser Gln Ile Ile Ala His Ser Gln Gly Asn Lys Glu Ser Trp Trp
 85 90 95
 Ile Glu Phe Ser Asp Tyr
 100

<210> 2550

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2550

Met Lys Ser Leu Ser Val Ser Ser Asp Phe Leu Gly Lys Asp Lys Pro
 1 5 10 15
 Val Ser Cys Gly Leu Ala Arg Ser Val Ser Gly Lys Thr Pro Gly Asp
 20 25 30
 Phe Tyr Asp Arg Arg Thr Thr Lys Pro Glu Phe Leu Arg Pro Gly Pro
 35 40 45
 Arg Lys Thr Glu Asp Thr Tyr Phe Ile Ser Ser Ala Gly Lys Pro Thr
 50 55 60
 Pro Gly Thr Gln Gly Lys Ile Lys Leu Val Lys Glu Ser Ser Leu Ser
 65 70 75 80
 Arg Gln Ser Lys Asp Ser Asn Pro Tyr Ala Thr Leu Pro Arg Ala Ser
 85 90 95
 Ser Val Ile Ser Thr Ala Glu Gly Thr Thr Arg Arg Thr Ser Ile His
 100 105 110
 Asp Phe Leu Thr Lys Asp Ser Arg Leu Pro Ile Ser Val Asp Ser Pro
 115 120 125
 Pro Ala Ala Ala Asp Ser Asn Thr Thr Ala Ala Ser Asn Val Asp Lys
 130 135 140
 Val Gln Glu Ser Arg Asn Ser Lys Ser Arg Ser Arg Glu Gln Gln Ser
 145 150 155 160

Ser

<210> 2551

<211> 184

<212> PRT

<213> Homo sapiens

<400> 2551

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Met Pro Val Lys Gly Ala Ser Ser Leu Leu Phe Leu Pro Leu Pro Pro
  1              5              10              15
Ser Ala Trp Gln Leu Cys Leu Leu Ser Lys Arg Arg Val His Pro Ile
      20              25              30
Arg Thr Pro Leu Pro Phe His Ser Trp Ile Lys Ala Leu Val Ile Ser
      35              40              45
Asn Gln Lys Val Pro Glu Arg Glu Arg Pro Glu Ser Thr Gly Val Leu
      50              55              60
Ser Asp Gly Cys Leu Gly Gln Ser Gln Glu Gly Glu Pro Leu Leu Ser
      65              70              75              80
Pro Pro Ala Leu Ala His Phe Pro Leu His Ala Arg Cys Cys Gly Ser
      85              90              95
Ser Trp Ala Trp Pro Gly Ser Ala Gly Glu Ala Ile Arg Met Val Ser
      100             105             110
Gly Ala Pro Phe Leu Cys Phe Leu Asp Gly Leu Asp Gly Leu Pro Cys
      115             120             125
Ser Ser Pro Met Ala Ala Leu Pro Ala Pro Met Ala Ala Leu Pro Ala
      130             135             140
Arg Arg Gln Arg Gln Glu His Ile Glu Gly Gly Ser Gln Gly Cys Gly
      145             150             155             160
Val Arg Ser Pro Ala Pro Cys Arg Gly Lys Pro Gly Ser Ala Thr Ser
      165             170             175
Ser Thr Leu Arg Leu Cys Pro Ala
      180

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<210> 2552

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2552

Met Ser Ser Ser Thr Ser Phe Ile Leu Ser Ala Ile Ala Ser Gly Phe
 1 5 10 15
 His Tyr Ser Leu Ser Ala Val Thr Ala Cys Gly Gln Leu Leu Leu Leu
 20 25 30
 Thr Ala Cys Arg Glu Leu Pro Asn Phe Ser Ser Gln Phe Phe Leu Arg
 35 40 45
 Ser Trp Leu Phe Trp Pro Gln Leu Lys Gly Val Leu Leu Ser Ser Leu
 50 55 60
 Arg Val Leu Ser Leu Phe Asp Pro Ile Val Val Phe Ser Ser Phe Glu
 65 70 75 80
 His Val Phe Gln Tyr Ser Tyr Phe Asn Leu Leu Arg Thr Leu Lys Gly
 85 90 95
 Asn Asp Lys Leu Val Val Gly Ile Trp Gln Thr Gly Ala Cys Leu Phe
 100 105 110
 Glu Arg Ser Ser Arg Arg Asp Lys Ile Gln Ser Ala Ile Cys Phe Ser
 115 120 125
 Trp Arg Gly Lys Arg Glu Asn Leu Leu Asp Tyr Ile Leu Val Pro Trp
 130 135 140
 His Thr Thr Tyr Met Phe Lys
 145 150

<210> 2553

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2553

Met Asn Asn Leu Gly Ser Trp Thr His Cys Phe Thr Thr His Leu Pro
 1 5 10 15

Leu Asp Glu Val Ile Trp Leu Gln Ile Leu Cys Arg Gly Lys His Leu

20	25	30
Leu Met Trp Gln Leu Leu Met Leu Met Val Pro Met Ala Trp Gly Pro		
35	40	45
Gln Gly Ser Leu Pro Gly Gly Glu Gln Gly Tyr Leu Cys Val Leu Tyr		
50	55	60
Ser Ser Gln Gly Val Pro Ala Ala Pro Ala Gly Ser Arg Ala Gln Cys		
65	70	75
Thr Val Leu Phe Val Ser Pro Ala Val Leu Ser Ser Pro Gly Tyr Ala		
85	90	95
Gln Ala Ser Arg Val Phe His Gly Ser Gly Ser Gly Trp Leu Lys Cys		
100	105	110
Gln Pro Thr Cys Cys Pro Pro Asn Ile Pro Phe Tyr Pro Trp His Ala		
115	120	125
Val Ala Glu Leu Asn Phe		
130		

<210> 2554

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2554

Met Ile Gln Phe Ser Lys Phe Glu Leu Leu Met Met His Lys Met Val
1 5 10 15
Ser Lys Ile Phe Thr Lys Ser Val Thr Leu Phe Phe Leu Ile Thr Phe
20 25 30
Phe Ser Arg Arg Ser Phe Thr Leu Phe Ala Gln Ala Gly Val Gln Trp
35 40 45
Arg His Leu Gly Ser Leu Gln Leu Leu Pro Pro Gly Phe Lys Arg Phe
50 55 60
Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Ser Leu Leu Pro
65 70 75 80
Cys Leu Ala Asn Phe Val Phe Leu Val Gly Met Gly Phe His His Gly

85 90 95
 Gly Gln Ala Gly Leu Asp Leu Leu Thr Ser Ser Asn Pro Pro Thr Ser
 100 105 110
 Ala Ser Gln Ser Ala Met Ile Ile Gly Val Ser His His Ala Trp Pro
 115 120 125
 Ile Thr Leu Tyr
 130

<210> 2555

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2555

Met Pro Pro His Thr Leu Pro Arg Ala Arg Leu Pro Gln Arg Pro Thr
 1 5 10 15
 Trp Pro His Met Gln Pro Tyr Gln Leu Pro Arg Ala Ala His Val Pro
 20 25 30
 Trp Val Thr Val Gly Val Ser Gly Arg Pro Pro Thr His Gly Cys Thr
 35 40 45
 Ala Arg Thr Ser Pro Ser Thr Trp Gly Arg Ala Ser Ser Pro Ser Phe
 50 55 60
 Lys Asn Arg Lys His Ile Ser Trp Gln Lys Gly Arg Arg Trp Gly Ala
 65 70 75 80
 Val Arg Leu Ser Ser Val Tyr Gly Glu Glu Val His Trp Pro Arg Leu
 85 90 95
 Ala Ser Val Pro Ala Leu Pro Leu Ile Gly Ser Phe Leu Thr Leu Val
 100 105 110
 Ser Leu Lys Val Thr Leu Ala Leu Glu Gly Cys Arg Gly Ala Glu Met
 115 120 125
 Gly Arg Cys Val Trp Lys Ser Arg Ala Asp Ile Gln Ala Glu Ala Trp
 130 135 140
 Pro Gly Ser Leu Arg Thr Arg Glu Val Ser Phe Leu Ala Pro Asp Ala
 145 150 155 160
 Gly Asp Gln Trp Pro Leu Leu Thr Phe Pro Gly Glu Phe

165

170

<210> 2556

<211> 710

<212> PRT

<213> Homo sapiens

<400> 2556

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Met His Asn Ile Arg Gly Asn Lys Gln Ala Gln Gly Thr Gly His Glu
  1             5             10             15
Pro Pro Gly Glu Asp Ser Thr Gln Ser Gly Glu Pro Gln Arg Glu Glu
          20             25             30
Gln Pro Ser Ala Ser Asp Ala Ser Thr Pro Val Arg Glu Pro Glu Asp
      35             40             45
Ser Pro Lys Pro Ala Pro Lys Pro Ser Leu Thr Ile Ser Phe Ala Gln
      50             55             60
Lys Ala Lys Arg Gln Asn Asn Thr Phe Pro Phe Phe Ser Glu Gly Ile
      65             70             75             80
Thr Arg Asn Arg Thr Ala Gln Glu Lys Val Ala Ala Leu Glu Gln Gln
          85             90             95
Val Leu Met Leu Thr Lys Glu Leu Lys Ser Gln Lys Glu Leu Val Lys
      100            105            110
Ile Leu His Lys Ala Leu Glu Ala Ala Gln Gln Glu Lys Arg Ala Ser
      115            120            125
Ser Ala Tyr Leu Ala Ala Ala Glu Asp Lys Asp Arg Leu Glu Leu Val
      130            135            140
Arg His Lys Val Arg Gln Ile Ala Glu Leu Gly Arg Arg Val Glu Ala
      145            150            155            160
Leu Glu Gln Glu Arg Glu Ser Leu Ala His Thr Ala Ser Leu Arg Glu
          165            170            175
Gln Gln Val Gln Glu Leu Gln Gln His Val Gln Leu Leu Met Asp Lys
          180            185            190
Asn His Ala Lys Gln Gln Val Ile Cys Lys Leu Ser Glu Lys Val Thr
          195            200            205
Gln Asp Phe Thr His Pro Pro Asp Gln Ser Pro Leu Arg Pro Asp Ala

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210	215	220
Ala Asn Arg Asp Phe Leu Ser Gln Gln Gly Lys Ile Glu His Leu Lys		
225	230	235
Asp Asp Met Glu Ala Tyr Arg Thr Gln Asn Cys Phe Leu Asn Ser Glu		
245	250	255
Ile His Gln Val Thr Lys Ile Trp Arg Lys Val Ala Glu Lys Glu Lys		
260	265	270
Ala Leu Leu Thr Lys Cys Ala Tyr Leu Gln Ala Arg Asn Cys Gln Val		
275	280	285
Glu Ser Lys Tyr Leu Ala Gly Leu Arg Arg Leu Gln Glu Ala Leu Gly		
290	295	300
Asp Glu Ala Ser Glu Cys Ser Glu Leu Leu Arg Gln Leu Val Gln Glu		
305	310	315
Ala Leu Gln Trp Glu Ala Gly Glu Ala Ser Ser Asp Ser Ile Glu Leu		
325	330	335
Ser Pro Ile Ser Lys Tyr Asp Glu Tyr Gly Phe Leu Thr Val Pro Asp		
340	345	350
Tyr Glu Val Glu Asp Leu Lys Leu Leu Ala Lys Ile Gln Ala Leu Glu		
355	360	365
Ser Arg Ser His His Leu Leu Gly Leu Glu Ala Val Asp Arg Pro Leu		
370	375	380
Arg Glu Arg Trp Ala Ala Leu Gly Asp Leu Val Pro Ser Ala Glu Leu		
385	390	395
Lys Gln Leu Leu Arg Ala Gly Val Pro Arg Glu His Arg Pro Arg Ala		
405	410	415
Trp Arg Trp Leu Val His Leu Arg Val Gln His Leu His Thr Pro Gly		
420	425	430
Cys Tyr Gln Glu Leu Leu Ser Arg Gly Gln Ala Arg Glu His Pro Ala		
435	440	445
Ala Arg Gln Ile Glu Leu Asp Leu Asn Arg Thr Phe Pro Asn Asn Lys		
450	455	460
His Phe Thr Cys Pro Thr Ser Ser Phe Pro Asp Lys Leu Arg Arg Val		
465	470	475
Leu Leu Ala Phe Ser Trp Gln Asn Pro Thr Ile Gly Tyr Cys Gln Gly		
485	490	495
Leu Asn Arg Leu Ala Ala Ile Ala Leu Leu Val Leu Glu Glu Glu Glu		

500	505	510
Ser Ala Phe Trp Cys Leu Val	Ala Ile Val Glu Thr Ile	Met Pro Ala
515	520	525
Asp Tyr Tyr Cys Asn Thr Leu	Thr Ala Ser Gln Val	Asp Gln Arg Val
530	535	540
Leu Gln Asp Leu Leu Ser Glu	Lys Leu Pro Arg Leu	Met Ala His Leu
545	550	555
Gly Gln His His Val Asp Leu	Ser Leu Val Thr Phe	Asn Trp Phe Leu
565	570	575
Val Val Phe Ala Asp Ser Leu	Ile Ser Asn Ile Leu	Leu Arg Val Trp
580	585	590
Asp Ala Phe Leu Tyr Glu Gly	Thr Lys Val Val Phe	Arg Tyr Ala Leu
595	600	605
Ala Ile Phe Lys Tyr Asn Glu	Lys Glu Ile Leu Arg	Leu Gln Asn Gly
610	615	620
Leu Glu Ile Tyr Gln Tyr Leu	Arg Phe Phe Thr Lys	Thr Ile Ser Asn
625	630	635
Ser Arg Lys Leu Met Asn Ile	Ala Phe Asn Asp Met	Asn Pro Phe Arg
645	650	655
Met Lys Gln Leu Arg Gln Leu	Arg Met Val His Arg	Glu Arg Leu Glu
660	665	670
Ala Glu Leu Arg Glu Leu Glu	Gln Leu Lys Ala Glu	Tyr Leu Glu Arg
675	680	685
Arg Ala Ser Arg Arg Arg Ala	Val Ser Glu Gly Cys	Ala Ser Glu Asp
690	695	700
Glu Val Glu Gly Glu Ala		
705	710	

<210> 2557

<211> 841

<212> PRT

<213> Homo sapiens

<400> 2557

Met Asn Leu Leu Tyr Arg Lys Thr Lys Leu Glu Trp Arg Gln His Lys

1	5	10	15
Glu Glu Glu	Ala Lys Arg Ser Ser	Lys Glu Val	Ala Pro Ala Gly
20	25	30	
Ser Ala Gly	Pro Ala Ala Gly Gln Gly	Pro Gly Val Arg	Val Arg Asp
35	40	45	
Ile Ala Ser	Leu Arg Arg Ser Leu Arg	Met Gly Phe Met	Thr Met Pro
50	55	60	
Ala Ser Gln	Glu His Thr Pro His Pro	Cys Arg Ser Ala	Met Ala Pro
65	70	75	80
Arg Ser Leu	Ser Cys His Ser Val Gly	Ser Met Asp Ser	Val Gly Gly
85	90	95	
Gly Pro Gly	Gly Ala Ser Gly Gly Leu Thr	Glu Asp Ser Ser	Thr Arg
100	105	110	
Arg Pro Pro	Ala Lys Pro Arg Arg His	Pro Ser Thr Lys	Leu Ser Met
115	120	125	
Val Gly Pro	Gly Ser Gly Ala Glu Thr	Pro Pro Ser Lys	Lys Ala Gly
130	135	140	
Ser Gln Lys	Pro Thr Pro Glu Gly Arg	Glu Ser Ser Arg	Lys Val Pro
145	150	155	160
Pro Gln Lys	Pro Arg Arg Ser Pro Asn	Thr Gln Leu Ser	Val Ser Phe
165	170	175	
Asp Glu Ser	Cys Pro Pro Gly Pro Ser	Pro Arg Gly Gly	Asn Leu Pro
180	185	190	
Leu Gln Arg	Leu Thr Arg Gly Ser Arg	Val Ala Gly Asp	Pro Asp Val
195	200	205	
Gly Ala Gln	Glu Glu Pro Val Tyr Ile	Glu Met Val Gly	Asp Val Phe
210	215	220	
Arg Gly Gly	Gly Arg Ser Gly Gly Gly	Leu Ala Gly Pro	Pro Leu Gly
225	230	235	240
Gly Gly Gly	Pro Thr Pro Pro Ala Gly	Ala Asp Ser Asp	Ser Glu Glu
245	250	255	
Ser Glu Ala	Ile Tyr Glu Glu Met Lys	Tyr Pro Leu Pro	Glu Glu Ala
260	265	270	
Gly Glu Gly	Arg Ala Asn Gly Pro Pro	Pro Leu Thr Ala	Thr Ser Pro
275	280	285	
Pro Gln Gln	Pro His Ala Leu Pro Pro	His Ala His Arg	Arg Pro Ala

290	295	300	
Ser Ala Leu Pro Ser Arg Arg Asp Gly Thr Pro Thr Lys Thr Thr Pro			
305	310	315	320
Cys Glu Ile Pro Pro Pro Phe Pro Asn Leu Leu Gln His Arg Pro Pro			
	325	330	335
Leu Leu Ala Phe Pro Gln Ala Lys Ser Ala Ser Arg Thr Pro Gly Asp			
	340	345	350
Gly Val Ser Arg Leu Pro Val Leu Cys His Ser Lys Glu Pro Ala Gly			
	355	360	365
Ser Thr Pro Ala Pro Gln Val Pro Ala Arg Glu Arg Glu Thr Pro Pro			
370	375	380	
Pro Pro Pro Pro Pro Pro Ala Ala Asn Leu Leu Leu Leu Gly Pro Ser			
385	390	395	400
Gly Arg Ala Arg Ser His Ser Thr Pro Leu Pro Pro Gln Gly Ser Gly			
	405	410	415
Gln Pro Arg Gly Glu Arg Glu Leu Pro Asn Ser His Ser Met Ile Cys			
	420	425	430
Pro Lys Ala Ala Gly Ala Pro Ala Ala Pro Pro Ala Pro Ala Ala Leu			
	435	440	445
Leu Pro Gly Pro Pro Lys Asp Lys Ala Val Ser Tyr Thr Met Val Tyr			
450	455	460	
Ser Ala Val Lys Val Thr Thr His Ser Val Leu Pro Ala Gly Pro Pro			
465	470	475	480
Leu Gly Ala Gly Glu Pro Lys Thr Glu Lys Glu Ile Ser Val Leu His			
	485	490	495
Gly Met Leu Cys Thr Ser Ser Arg Pro Pro Val Pro Gly Lys Thr Ser			
	500	505	510
Pro His Gly Gly Ala Met Gly Ala Ala Ala Gly Val Leu His His Arg			
	515	520	525
Gly Cys Leu Ala Ser Pro His Ser Leu Pro Asp Pro Thr Val Gly Pro			
	530	535	540
Leu Thr Pro Leu Trp Thr Tyr Pro Ala Thr Ala Ala Gly Leu Lys Arg			
545	550	555	560
Pro Pro Ala Tyr Glu Ser Leu Lys Ala Gly Gly Val Leu Asn Lys Gly			
	565	570	575
Cys Gly Val Gly Ala Pro Ser Pro Met Val Lys Ile Gln Leu Gln Glu			

580	585	590
Gln Gly Thr Asp Gly Gly Ala Phe	Ala Ser Ile Ser Cys Ala His Val	
595	600	605
Ile Ala Ser Ala Gly Thr Pro Glu Glu Glu Glu Glu Val Gly Ala		
610	615	620
Ala Thr Phe Gly Ala Gly Trp Ala Leu Gln Arg Lys Val Leu Tyr Gly		
625	630	635
Gly Arg Lys Ala Lys Glu Leu Asp Lys Val Glu Asp Gly Ala Arg Ala		
645	650	655
Trp Asn Gly Ser Ala Glu Gly Pro Gly Lys Val Glu Arg Glu Asp Arg		
660	665	670
Gly Pro Gly Thr Ser Gly Ile Pro Val Arg Ser Gln Gly Ala Glu Gly		
675	680	685
Leu Leu Ala Arg Ile His His Gly Asp Arg Gly Gly Ser Arg Thr Ala		
690	695	700
Leu Pro Ile Pro Cys Gln Thr Phe Pro Ala Cys His Arg Asn Gly Asp		
705	710	715
Phe Thr Gly Gly Tyr Arg Leu Gly Arg Ser Ala Ser Thr Ser Gly Val		
725	730	735
Arg Gln Val Val Leu His Thr Pro Arg Pro Cys Ser Gln Pro Arg Asp		
740	745	750
Ala Leu Ser Gln Pro His Pro Ala Leu Pro Leu Pro Leu Pro Leu Pro		
755	760	765
Pro Gln Pro Ala Arg Glu Arg Asp Gly Lys Leu Leu Glu Val Ile Glu		
770	775	780
Arg Lys Arg Cys Val Cys Lys Glu Fle Lys Ala Arg His Arg Pro Asp		
785	790	795
Arg Gly Leu Cys Lys Gln Glu Ser Met Pro Ile Leu Pro Ser Trp Arg		
805	810	815
Arg Gly Pro Glu Pro Arg Lys Ser Gly Thr Pro Pro Cys Arg Arg Gln		
820	825	830
His Thr Val Leu Trp Asp Thr Ala Ile		
835	840	

<210> 2558

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2558

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Met Asn Met Leu Val Ile Cys Leu Tyr Leu Val Phe Ile Cys Ile Ala
 1              5              10             15
Ile Phe Glu His Ser Lys Ile Ala Glu His Glu Arg Val Tyr Leu Cys
      20              25             30
Asp Ser Leu Ile Ser Ala Ala Leu Gly Leu Ser Lys Arg Cys Lys Glu
      35              40             45
Arg Asp Ile Cys Ile Thr Ser Thr Ser Ser Thr Ser Thr Thr Thr Ser
      50              55             60
Ser Ser Leu Ala Ser Cys Glu His Arg Gly Thr Cys Pro Ala Leu Val
      65              70             75             80
Ser Gly Cys Glu Trp His Glu Pro Arg Gly Leu Ala Gln Leu His Pro
              85              90             95
Glu Phe Pro Lys Arg Asn Phe Glu Glu Ser Gln Asn Leu
      100             105

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<210> 2559

<211> 210

<212> PRT

<213> Homo sapiens

<400> 2559

```

Met Pro Arg Ser Leu Arg Pro Pro Cys Pro Gly Ser Thr Leu Arg Trp
 1              5              10             15
Leu Pro Gly Gly Arg Thr Pro Phe Pro His His Val Ser Cys Gln Pro
      20              25             30
Arg Arg Ser Ser Gly Glu Arg Glu Ala Glu Ala Gln Ser Gly Ala Ala
      35              40             45
Pro Pro Gly Pro Ser Pro Leu Pro Pro Pro Pro Pro His Pro Ile Pro
      50              55             60

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Ser Ser Thr Thr Ser Ala Gln Ala Trp Leu Leu Ala Lys Ser Arg His
 65 70 75 80
 Arg Gly Arg Arg Gly Arg Gly Lys Arg Met Ile Pro Pro Gln Asn Gly
 85 90 95
 Val Ser Arg Lys Lys Arg Glu Cys Arg Ala Arg Arg Asp Ser Trp Gly
 100 105 110
 Arg Gly Ala Pro Ala Gly Pro Ala Glu Gly Arg Arg Asn Gly Leu Ser
 115 120 125
 Glu Gly Gln Ala Glu Gly Arg Thr Pro Thr Val Asp Pro Ser Tyr Ala
 130 135 140
 Pro Cys Arg Gly Gly Ala Gly Arg Arg Arg Cys Thr Arg Leu Pro Ala
 145 150 155 160
 Ala Cys Gly Arg Arg Ser Pro Arg Ala Arg Gly Ser Arg Lys Pro Arg
 165 170 175
 Ser Ser Arg Thr Arg Gly Pro Gly Lys Lys Arg Arg Gly Pro Gln Pro
 180 185 190
 Ala Ser Leu Ala Pro Pro Arg Phe Pro Pro Gln Ser Gly Val Pro Leu
 195 200 205
 Arg Leu
 210

<210> 2560

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2560

Met Pro His Pro Arg Pro Pro Ser Thr Pro Pro Pro Arg Pro Leu Ser
 1 5 10 15
 Thr Pro Cys Pro Gln Leu Pro Leu Leu Ala Pro Val Pro Ala Phe Leu
 20 25 30
 Ser His Pro Pro Val Ser Ile Phe Leu Leu Cys Ser His Pro Leu Ser
 35 40 45
 Leu Ser Val Ser Leu Leu Phe Leu Phe Ser Val Ser Pro Ser Asp His
 50 55 60

Leu Thr Pro Leu Ala Cys Cys Leu Ala Ser Ser Leu Ser Pro Phe Leu
 65 70 75 80
 Ser Leu Phe Val Ser Ser Leu Phe Leu Thr His Phe Leu Tyr Leu Ala
 85 90 95
 Ala Ser Pro Cys Phe Arg Leu Ser Val Ser Leu Phe Pro Pro Pro Leu
 100 105 110
 Ser Leu Pro Arg Ser Pro Ile Ser Val Ser Pro Pro Trp Cys Leu Leu
 115 120 125
 Leu Thr Gln Glu Ser Lys Pro Phe Phe Pro Arg Gly Trp Ala Lys Gln
 130 135 140
 Pro Gln Pro Gly Pro Phe Ser Ala Thr Arg Phe Leu Thr Trp Gly Pro
 145 150 155 160
 Ser Ala Pro

<210> 2561

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2561

Met Cys Pro Arg Ser Gly Arg Gln Gln Met Glu Lys Leu Cys Val Thr
 1 5 10 15
 Val Pro Leu Gly Val Val Gly Arg Phe Phe Ile Lys Phe Thr Glu Gly
 20 25 30
 Leu Val Val Pro Gly Val Arg Lys Gly Phe Lys Arg Val Glu Gln Met
 35 40 45
 Asp Glu Asp Asn Leu Gln Ile Leu Pro Gln Thr Gln Thr Leu Ala Cys
 50 55 60
 Val Pro Leu Leu Ser Gly Ile Ser Ser Phe Leu Cys Cys Leu His Arg
 65 70 75 80
 Cys Pro Gln Phe Val Tyr Ser Ile Glu Leu Cys Met Leu Gly Ala Pro
 85 90 95
 Gly Leu Ser Thr Leu Asn Arg Thr Ser Gln Pro Ala Ala Pro Val Gln
 100 105 110

His His Gly Ser Pro Leu Gln Ser Cys Asn Phe Glu Ser Gly Tyr Ser
 115 120 125
 Asp Val Thr Gln Val Leu Gln Gly Met Asn Thr Pro Thr Leu Lys Pro
 130 135 140
 Leu Ala Cys Arg Cys Gly Arg Lys Gly Ser Cys Met Leu
 145 150 155

<210> 2562

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2562

Met Gln Val Ile His Gly Pro His Val Glu Lys Leu Gln Ser Pro Leu
 1 5 10 15
 Gly Pro His Arg Pro Ser Pro His Cys Pro Leu Ser Val Val Thr Gly
 20 25 30
 Pro Asp Leu Gln Glu Cys Thr Phe His Ser Thr Arg Lys Pro Tyr Asp
 35 40 45
 Ile Leu Arg Leu Pro Arg Pro Ala Ala Cys Met Gly Pro Leu Pro Ser
 50 55 60
 Ser Thr Pro Thr Leu Arg Met Val Pro Cys Ser Ala Leu Val Leu Cys
 65 70 75 80
 Trp Pro Leu Pro Ala Thr Pro Thr Leu Arg His Pro Gly Val Val Gly
 85 90 95
 Pro Asn Trp Leu Ala Pro Pro Ser Ala Ala Leu Cys Arg Pro Asp Ala
 100 105 110
 Ala Val Trp Pro Asp Leu Pro Ser Ser Asn Ile Leu Leu Val Thr Pro
 115 120 125
 Pro Pro Ala Lys
 130

<210> 2563

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2563

```

Met Asn Trp Leu Arg Trp Lys Arg Phe Thr Pro Val Ile Met Val His
  1              5              10              15
Phe Gln Leu His Arg Lys Val Lys Pro Gly Ser Gly Gly Glu Val Asp
      20              25              30
Ala Ala Gly Ser Gln Gly Cys Ser Phe Arg Ser Gly Leu Pro Pro Ala
      35              40              45
Trp Thr Gln Trp Phe Ala Ser Ser Ser Ala Thr Ala Pro Gly Asp Ser
      50              55              60
Ser Pro Pro Leu Ala Ser Gln Pro Ser Ser Ser Gln Val Leu Leu Ser
      65              70              75              80
Ala Pro Pro Ser Cys Cys Ser Gly Gly Arg Glu Asn His Gln Leu His
      85              90              95
Thr Leu Leu Val Gly Ser Leu Gln Asp Leu Leu His Thr Glu Leu Ala
      100             105             110
Ser Ala Tyr Gln Val Glu Ser Phe Val Leu Ile Phe Gln Lys Gln Cys
      115             120             125
Gly Leu Asn Leu Ser Arg Gln Ile Leu His Ala Arg Leu Tyr
      130             135             140

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<210> 2564

<211> 218

<212> PRT

<213> Homo sapiens

<400> 2564

```

Met Arg Thr Ser Ala Gly Gly Leu Val Thr Gly Gly Trp Ile Ala Arg
  1              5              10              15
Arg Met Ile Ala Arg Arg Met Asp Arg Gln Glu Asp Gly Ser Pro Gly
      20              25              30
Gly Trp Met Ala Gln Ser Ser Glu Glu Val Val Glu Gly Pro Ala Pro
      35              40              45

```

Gly Asp Pro Ala Gly Arg Ser Gln Thr Thr Ser Glu Ala Pro Thr Glu
 50 55 60
 Pro Arg Pro His Gln Ala Glu Gly Leu Ala Pro Ala Glu Glu Glu Gly
 65 70 75 80
 Gly Val Thr Leu Cys Ser Arg Gln Gly Arg Glu Val Glu Ser Ser Gly
 85 90 95
 Phe Ala Ser Ser Cys Ser Cys Pro Gly Leu Pro Lys Gln Met Pro Pro
 100 105 110
 Gln His Thr Asn His Thr Gly Thr Gln Thr His Met His Thr His His
 115 120 125
 Thr Gly Thr His Leu Cys Thr Thr His His Arg His Thr Thr Gln Ala
 130 135 140
 His Thr Gln Ala His Thr Cys Thr His His Thr Gly Thr His Arg Gln
 145 150 155 160
 Thr Gln Leu His Thr Arg Ser His Thr Asp Thr His Gly His Thr Tyr
 165 170 175
 Met Tyr Leu His Ile Tyr Thr His Ala His Lys His His Ser Thr Cys
 180 185 190
 Thr Asn Met Gln Tyr Thr Cys Arg His Ile His Ser Asn Gln Met Ile
 195 200 205
 Lys Glu Arg Asp Gln Asn Ile Asn Asn Lys
 210 215

<210> 2565

<211> 196

<212> PRT

<213> Homo sapiens

<400> 2565

Met Arg Tyr Thr Thr Val Pro Ser Val Arg Pro Thr Ala Leu Ala Thr
 1 5 10 15
 Lys Lys Leu Asp Leu Trp Arg Leu Pro Pro Phe Leu Ile Ile His Leu
 20 25 30
 Lys Arg Phe Gln Phe Val Asn Asp Gln Trp Ile Lys Ser Gln Lys Ile
 35 40 45

Val Lys Phe Pro Arg Glu Ser Phe Asp Pro Ser Ala Phe Leu Val Pro
 50 55 60
 Arg Asp Pro Ala Leu Cys Gln His Gln Pro Leu Thr Pro Gln Gly Asp
 65 70 75 80
 Glu Leu Ser Lys Pro Arg Ile Leu Ala Arg Glu Val Lys Lys Val Asp
 85 90 95
 Val Gln Ser Leu Ala Gly Glu Glu Asp Met Leu Leu Ser Lys Ser Pro
 100 105 110
 Ser Ser Leu Ser Ala Asn Ile Ser Ser Ser Pro Lys Gly Ser Pro Ser
 115 120 125
 Ser Pro Arg Lys Ser Gly Thr Ser Cys Pro Ser Ser Lys Asn Ser Ser
 130 135 140
 Pro Asn Ser Cys Pro Arg Thr Leu Gly Arg Ser Lys Gly Arg Leu Arg
 145 150 155 160
 Leu Pro Gln Ile Gly Ser Lys Asn Lys Leu Ser Ser Ser Lys Lys Asn
 165 170 175
 Leu Asp Ala Ser Lys Glu Asn Gly Ala Gly Gln Ile Cys Glu Leu Ala
 180 185 190
 Asp Ala Leu Ser
 195

<210> 2566

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2566

Met Ser His Arg Ala Gln Leu Ile Phe Val Phe Leu Phe Tyr Leu Phe
 1 5 10 15
 Ile Tyr Phe Leu Gly Asp Gly Val Leu Leu Cys His Pro Gly Trp Ser
 20 25 30
 Thr Val Val Arg Ser Trp Leu Thr Ala Thr Ser Ala Ser Gln Val Ala
 35 40 45
 Gly Ile Thr Gly Met His His His Ala Gln Leu Ile Phe Val Phe Leu

50 55 60
 Val Glu Met Gly Phe His Cys Val Gly Gln Ala Gly Leu Glu Leu Leu
 65 70 75 80
 Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Ile
 85 90 95
 Gly Val Ser His Cys Thr Arg Pro Asn Phe Cys Ile Phe Ser Arg Asp
 100 105 110
 Gly Val Ser Pro Cys Trp Leu Ser Trp Ser Gly Thr His Gly Leu Lys
 115 120 125
 Leu Ser Ala His Leu Ser Leu Pro Lys Cys
 130 135

<210> 2567

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2567

Met Ala Ala Leu Met Ala Gln Val Glu Tyr Gly Asp Leu Glu Lys Pro
 1 5 10 15
 Ala Leu Pro Gly Pro Gly Gly Thr Ser Pro Ala Lys Ala Gln His Leu
 20 25 30
 Leu Gln Gln Val Leu Asp Arg Phe His Pro Arg Arg Tyr Arg His Gly
 35 40 45
 Ala Pro Ala Glu Gln Leu Arg His Leu Ala Asp Met Leu Thr Thr Lys
 50 55 60
 Trp Ala Thr Leu Gln Gly Cys Ser Pro Pro Glu Cys Ile Arg Ile Tyr
 65 70 75 80
 Leu Thr Val Ala Arg Lys Trp Pro Phe Phe Gly Ala Lys Leu Phe Ala
 85 90 95
 Ala Gln Pro Ala Gln Leu Ser Ser Lys Glu Asn Ala Leu Val Trp Ile
 100 105 110
 Ala Val Asn Glu Asp Gly Val Ser Ile Leu Asp His Asn Thr Met Gln
 115 120 125

Val His Ile Thr Tyr Pro Tyr Ser Ser Val Thr Thr Phe Gly Gly Cys
 130 135 140
 Arg Asp Asp Phe Met Leu Val Ile Arg Ser Ile Pro Asp Lys Ser Ser
 145 150 155 160
 Gly Lys Ser His Ile Glu Lys Leu Ile Phe Arg Met Ala Ala Pro Lys
 165 170 175
 Ile Ala Glu Ala Thr Phe Ile Met Ala Ser Tyr Met Asn His Cys Thr
 180 185 190
 Thr Thr Val Asn Pro Pro Thr Asn Pro Pro Gly Ala Cys Gln Leu Trp
 195 200 205
 Glu Leu Asp Gly Arg Gln Phe Phe Ser Ser Val Ser Cys Ala Thr Lys
 210 215 220
 Gly Pro Thr Leu Leu
 225

<210> 2568

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2568

Met Ala Ala Glu Asn Glu Ala Ser Gln Glu Ser Ala Leu Gly Ala Tyr
 1 5 10 15
 Ser Pro Val Asp Tyr Met Ser Ile Thr Ser Phe Pro Arg Leu Pro Glu
 20 25 30
 Asp Glu Pro Ala Pro Ala Ala Pro Leu Arg Gly Arg Lys Asp Glu Asp
 35 40 45
 Ala Phe Leu Gly Asp Pro Asp Thr Asp Pro Asp Ser Phe Leu Lys Ser
 50 55 60
 Ala Arg Leu Gln Arg Leu Pro Ser Ser Ser Ser Glu Met Gly Ser Gln
 65 70 75 80
 Asp Gly Ser Pro Leu Arg Glu Thr Arg Lys Asp Pro Phe Ser Ala Ala
 85 90 95
 Ala Ala Glu Cys Ser Cys Arg Gln Asp Gly Leu Thr Val Ile Val Thr
 100 105 110

Ala Cys Leu Thr Phe Ala Thr Gly Val Thr Val Ala Leu Val Met Gln
 115 120 125
 Ile Tyr Phe Gly Asp Pro Gln Val Arg Gly Thr Asn Gly Glu Gly Glu
 130 135 140
 Glu Thr Gly Glu Trp Gly Val Gly
 145 150

<210> 2569

<211> 186

<212> PRT

<213> Homo sapiens

<400> 2569

Met Cys Ser Gly Lys Glu Asn Pro Asp Ser Asp Ala Asp Leu Asp Val
 1 5 10 15
 Asp Gly Asp Asp Thr Leu Glu Tyr Gly Lys Pro Gln Tyr Thr Glu Ala
 20 25 30
 Asp Val Ile Pro Cys Thr Gly Glu Glu Pro Gly Glu Ala Lys Glu Arg
 35 40 45
 Glu Ala Leu Arg Gly Ala Val Leu Asn Gly Gly Pro Pro Ser Thr Arg
 50 55 60
 Ile Thr Pro Glu Phe Ser Lys Trp Val Ser Asp Glu Met Pro Ser Thr
 65 70 75 80
 Ser Asn Gly Glu Ser Ser Lys Gln Glu Ala Met Gln Lys Thr Cys Lys
 85 90 95
 Asn Ser Asp Ile Glu Lys Ile Thr Glu Asp Ser Ala Val Thr Thr Phe
 100 105 110
 Glu Ala Leu Lys Ala Arg Val Arg Glu Leu Glu Arg Gln Leu Ser Arg
 115 120 125
 Gly Asp Arg Tyr Lys Cys Leu Ile Cys Met Asp Ser Tyr Ser Met Pro
 130 135 140
 Leu Thr Ser Ile Gln Cys Trp His Val His Cys Glu Glu Cys Trp Leu
 145 150 155 160
 Arg Thr Leu Val Arg Trp His Gly Gly Arg Gly Met Gly Gly Arg Ser
 165 170 175

Gly His Cys Pro Asp Val Cys Ala Tyr Ala

180

185

<210> 2570

<211> 221

<212> PRT

<213> Homo sapiens

<400> 2570

Met	Ser	Tyr	Gly	Arg	Pro	Pro	Pro	Asp	Val	Glu	Gly	Met	Thr	Ser	Leu
1				5					10					15	
Lys	Val	Asp	Asn	Leu	Thr	Tyr	Arg	Thr	Ser	Pro	Asp	Thr	Leu	Arg	Arg
			20					25					30		
Val	Phe	Glu	Lys	Tyr	Gly	Arg	Val	Gly	Asp	Val	Tyr	Ile	Pro	Arg	Asp
		35				40					45				
Arg	Tyr	Thr	Lys	Glu	Ser	Arg	Gly	Phe	Ala	Phe	Val	Arg	Phe	His	Asp
	50					55					60				
Lys	Arg	Asp	Ala	Glu	Asp	Ala	Met	Asp	Ala	Met	Asp	Gly	Ala	Val	Leu
65				70					75					80	
Asp	Gly	Arg	Glu	Leu	Arg	Val	Gln	Met	Ala	Arg	Tyr	Gly	Arg	Pro	Pro
			85					90						95	
Asp	Ser	His	His	Ser	Arg	Arg	Gly	Pro	Pro	Pro	Arg	Arg	Tyr	Gly	Gly
		100					105						110		
Gly	Gly	Tyr	Gly	Arg	Arg	Ser	Arg	Ser	Pro	Arg	Arg	Arg	Arg	Arg	Ser
		115				120						125			
Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Tyr
	130					135					140				
Ser	Arg	Ser	Lys	Ser	Arg	Ser	Arg	Thr	Arg	Ser	Arg	Ser	Arg	Ser	Thr
145			150						155					160	
Ser	Lys	Ser	Arg	Ser	Ala	Arg	Arg	Ser	Lys	Ser	Lys	Ser	Ser	Ser	Val
			165					170					175		
Ser	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Pro
	180						185					190			
Pro	Pro	Val	Ser	Lys	Arg	Glu	Ser	Lys	Ser	Arg	Ser	Arg	Ser	Lys	Ser
	195						200					205			

Pro Pro Lys Ser Pro Glu Glu Glu Gly Ala Val Ser Ser
 210 215 220

<210> 2571

<211> 244

<212> PRT

<213> Homo sapiens

<400> 2571

Met Ala Val Ile Pro Glu Ser Ala Trp Lys His Pro Asp Tyr Val Asp
 1 5 10 15
 Asp Gly Leu Ser Gly Val Cys Asn Gly Leu Glu Gln Pro Arg Lys Gln
 20 25 30
 Gln Arg Ser Asp Leu Asn Gly Pro Val Asp Asn Asn Asn Ile Pro Glu
 35 40 45
 Thr Lys Lys Val Ala Ser Phe Pro Ser Phe Val Ala Val Pro Gly Pro
 50 55 60
 Cys Glu Pro Glu Asp Leu Ile Asp Gly Ile Ile Phe Ala Ala Asn Tyr
 65 70 75 80
 Leu Gly Ser Thr Gln Leu Leu Ser Glu Arg Asn Pro Ser Lys Asn Ile
 85 90 95
 Arg Met Met Gln Ala Gln Glu Ala Val Ser Arg Val Lys Asn Ser Glu
 100 105 110
 Gly Asp Ala Gln Thr Leu Thr Glu Val Asp Leu Phe Ile Ser Thr Gln
 115 120 125
 Arg Ile Lys Val Leu Asn Ala Asp Thr Gln Glu Thr Met Met Asp His
 130 135 140
 Ala Leu Arg Thr Ile Ser Tyr Ile Ala Asp Ile Gly Asn Ile Val Val
 145 150 155 160
 Leu Met Ala Arg Arg Arg Met Pro Arg Ser Ala Ser Gln Asp Cys Ile
 165 170 175
 Glu Thr Thr Pro Gly Ala Gln Glu Gly Lys Lys Gln Tyr Lys Met Ile
 180 185 190
 Cys His Val Phe Glu Ser Glu Asp Val Ser Lys Pro Leu Pro Gly His
 195 200 205

Ser Pro Pro Lys Val His Ser Pro Gly Arg Leu Gln Asp Pro Gly Ala
 210 215 220
 Val Glu Thr Thr Leu Arg Trp Lys Ala Ser Met Leu Leu Leu Met Phe
 225 230 235 240
 Pro Val Asp Gln

<210> 2572

<211> 195

<212> PRT

<213> Homo sapiens

<400> 2572

Met Met Pro Pro Pro Gly Ile Pro Pro Pro Phe Pro Pro Met Gly Leu
 1 5 10 15
 Pro Pro Met Ser Gln Arg Pro Pro Ala Ile Pro Pro Met Pro Pro Gly
 20 25 30
 Ile Leu Pro Pro Met Leu Pro Pro Met Gly Ala Pro Pro Pro Leu Thr
 35 40 45
 Gln Ile Pro Gly Met Val Pro Pro Met Met Pro Gly Met Leu Met Pro
 50 55 60
 Ala Val Pro Val Thr Ala Ala Val Ser Thr Arg Gly Gln Gln Val Ala
 65 70 75 80
 Gly Ser Ala Leu Gln Ser Arg Glu Ser Asp Leu Glu Cys Arg Thr Met
 85 90 95
 Thr Ser Ile Leu Ser Leu Phe Ser Ser His Pro Pro Arg Ser Pro Ala
 100 105 110
 Ala Leu Pro Thr Leu Lys Ser Phe Ser Pro Ala Met Tyr Ser Ala Leu
 115 120 125
 Leu Val Ser His Ser Ser Pro Lys Ala Tyr Thr Phe Ser Cys Tyr Ser
 130 135 140
 Arg Ala Leu Ser Ser Ser Leu Lys Glu His Thr Tyr Pro His Arg Ala
 145 150 155 160
 Thr His Cys Gly His Met Asn Ile Val Leu His Ile Leu Phe Val Pro
 165 170 175

Arg Arg Val Ser Ser Thr Trp Gly Ser Cys Cys Ala Phe Leu Cys Tyr
 180 185 190
 Arg Ser Val
 195

<210> 2573
 <211> 129
 <212> PRT
 <213> Homo sapiens

<400> 2573
 Met Asp Ile Arg Ser Ala Ala Gly Leu Arg Val Leu Ala Val Asn Ile
 1 5 10 15
 Leu Gly Arg Phe Leu Leu Asn Ser Asp Arg Asn Ile Arg Tyr Val Ala
 20 25 30
 Leu Thr Ser Leu Leu Arg Leu Val Gln Ser Asp His Ser Ala Val Gln
 35 40 45
 Arg His Arg Pro Thr Val Val Glu Cys Leu Arg Glu Thr Asp Ala Ser
 50 55 60
 Leu Ser Arg Arg Ala Leu Glu Leu Ser Leu Ala Leu Val Asn Ser Phe
 65 70 75 80
 Asn Val Arg Ala Met Met Gln Glu Leu Gln Ala Phe Leu Glu Ser Cys
 85 90 95
 Pro Pro Asp Leu Arg Ala Asp Cys Ala Ser Gly Ile Leu Leu Ala Ala
 100 105 110
 Glu Arg His His Pro Ala Cys Ala Asp Asn Gly Gly His Pro Cys Ala
 115 120 125
 Gly

<210> 2574
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 2574

Met Glu Asp Ser Ala Val Pro Thr Pro Asp Ser Arg Glu Ala Gly Val
 1 5 10 15
 Trp Thr Val Pro His Leu Asn Pro His Ser Leu Cys Leu Pro Leu Pro
 20 25 30
 Arg Leu Ala Lys Lys Ser Trp Phe Gly Asn Phe Ile Ser Leu Glu Lys
 35 40 45
 Glu Glu Gln Ile Phe Val Val Ile Lys Asp Lys Pro Leu Ser Ser Ile
 50 55 60
 Lys Ala Asp Ile Val His Ala Phe Leu Ser Ile Pro Ser Leu Ser His
 65 70 75 80
 Ser Val Ile Ser Gln Thr Ser Phe Arg Ala Glu Tyr Lys Ala Thr Gly
 85 90 95
 Gly Pro Ala Val Phe Gln Lys Pro Val Lys Phe Gln Val Asp Ile Thr
 100 105 110
 Tyr Thr Glu Gly Gly Glu Ala Gln Lys Glu Asn Gly Ile Tyr Ser Val
 115 120 125
 Thr Phe Thr Leu Leu Ser Gly Pro Ser Arg Arg Phe Lys Arg Val Val
 130 135 140
 Glu Thr Ile Gln Ala Gln Leu Leu Ser Thr His Asp Pro Pro Ala Ala
 145 150 155 160
 Gln His Leu Ser Glu Pro Pro Pro Pro Ala Pro Gly Leu Ser Trp Gly
 165 170 175
 Ala Gly Leu Lys Gly Gln Lys Val Ala Thr Ser Tyr Glu Ser Ser Leu
 180 185 190

<210> 2575

<211> 256

<212> PRT

<213> Homo sapiens

<400> 2575

Met Asn Pro Gly Gly Arg Ala Cys Ser Glu Pro Arg Leu Arg His Ala
 1 5 10 15

Thr Ala Leu Gln Pro Gly Arg Gln Ser Glu Thr Pro Ser Gln Lys Lys
 20 25 30
 Lys Lys Lys Phe Lys Asp Phe Ile Ile Glu Thr Glu Ile Thr Phe Asp
 35 40 45
 Leu Cys Ser Phe Leu Ser Ser Ser Lys Ser Pro Gly Thr Ser Met Thr
 50 55 60
 Pro Ser Ser Gly Ser Phe Pro Ser Ala Tyr Asp Gln Gln Ser Ser Lys
 65 70 75 80
 Asp Ser Arg Gln Gly Gln Trp Gln Arg Arg Arg Arg Leu Asp Gly Ala
 85 90 95
 Leu Asn Arg Val Pro Val Gly Phe Tyr Gln Lys Val Trp Lys Val Leu
 100 105 110
 Gln Lys Cys His Gly Leu Ser Val Glu Gly Phe Val Leu Pro Ser Ser
 115 120 125
 Thr Thr Arg Glu Met Thr Pro Gly Glu Ile Lys Phe Ser Val His Val
 130 135 140
 Glu Ser Val Leu Asn Arg Val Pro Gln Pro Glu Tyr Arg Gln Leu Leu
 145 150 155 160
 Val Glu Ala Ile Leu Val Leu Thr Met Leu Ala Asp Ile Glu Ile His
 165 170 175
 Ser Ile Gly Ser Ile Ile Ala Val Glu Lys Ile Val His Ile Ala Asn
 180 185 190
 Asp Leu Phe Leu Gln Glu Gln Lys Thr Leu Gly Ala Asp Asp Thr Met
 195 200 205
 Leu Ala Lys Asp Pro Ala Ser Gly Ile Cys Thr Leu Leu Tyr Asp Ser
 210 215 220
 Ala Pro Ser Gly Arg Phe Gly Thr Met Thr Tyr Leu Ser Lys Ala Ala
 225 230 235 240
 Ala Thr Tyr Val Gln Glu Phe Leu Pro His Ser Ile Cys Ala Met Gln
 245 250 255

<210> 2576

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2576

Met Gly Trp Val Gly Val Val Gln Val Pro Cys Met Gly Ser Thr Ala
 1 5 10 15
 Leu Lys Arg Val Gln Arg Pro His Leu Arg Val Ser Ala Arg Ala Gly
 20 25 30
 Phe Arg Ala Ser Leu Ala Ser Trp Ala Leu Cys Leu Ser His Ser Asp
 35 40 45
 Ser Asn Met Ile Thr Cys Ser Glu Gln Pro His Leu Ser Lys Gln Gly
 50 55 60
 Glu Asn Thr Ser Ala Thr Phe Lys Asn Met Ser Pro Gly Ile Lys Lys
 65 70 75 80
 Lys Thr Arg Lys Ala Ser Phe Ser Ser Leu Val Gly Lys Ser Ser Leu
 85 90 95
 Leu Thr Ala Ser Ser
 100

<210> 2577

<211> 100

<212> PRT

<213> Homo sapiens .

<400> 2577

Met Ser His Arg Ala Gln Pro Ile Leu Phe Ser Arg Gln Gly Leu Ala
 1 5 10 15
 Leu Ser Pro Glu Leu Glu Cys Ser Gly Ser Ile Met Ala His Tyr Ser
 20 25 30
 Leu Asp Leu Leu Gly Ser Gly Ser Ser Pro Thr Ser Ala Ser Arg Val
 35 40 45
 Ala Gly Thr Ala Gly Met His Cys His Thr Arg Leu Met Phe Lys Lys
 50 55 60
 Phe Phe Cys Arg Asp Arg Val Leu Thr Val Leu Pro Arg Leu Val Leu
 65 70 75 80
 Asn Ser Cys Val Gln Ala Val Leu Leu Pro Gln Pro Pro Arg Val Leu
 85 90 95

Gly Leu Gln Ala

100

<210> 2578

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2578

Met	Arg	Trp	Ser	Leu	Thr	Leu	Ser	Pro	Arg	Leu	Glu	Cys	Ser	Gly	Ala
1				5					10					15	
Ile	Ser	Thr	Asp	Ser	Ser	Leu	His	Leu	Pro	Gly	Ser	Ser	Asn	Ser	Leu
			20					25					30		
Thr	Ser	Ala	Ser	Gln	Val	Gly	Gly	Ile	Thr	Gly	Ala	Cys	His	His	Ala
		35				40					45				
Arg	Leu	Ile	Phe	Val	Phe	Ser	Val	Glu	Thr	Gly	Phe	His	His	Val	Gly
	50				55						60				
Gln	Ala	Gly	Leu	Glu	Leu	Leu	Thr	Ser	Asn	Asp	Leu	Pro	Thr	Ser	Ala
65				70					75					80	
Ser	Gln	Asn	Ala	Gly	Ile	Thr	Gly	Val	Ser	His	Arg	Ala	Gln	Pro	Glu
			85					90					95		
Leu	Cys	Phe	Ile	Leu	Lys	Ser	Phe	Ser	Phe	Phe	Leu	Arg	Gln	Gly	Leu
		100						105					110		
Cys	His	Pro	Gly	Trp	Ser	Ala	Val	Ala	Gln	Ser	Gln	Leu	Thr	Glu	Ala
		115				120						125			
Ser	Val	Ser	Gln	Ala	Gln	Ala	Ile	Leu	Leu	Pro	Gln	Pro	Pro	Glu	Tyr
	130				135						140				
Gly	Ser	Thr	Gly	Met	Tyr	His	His	Ala	Trp	Leu	Ile	Phe	Trp	Gly	Gly
145				150					155					160	
Leu	Val	Asn	Lys	Gly	Ser	His	Tyr	Ile	Ala	Gln	Ala	Gly	Leu	Glu	Leu
			165					170					175		
Leu	Asn	Ser	Ser	Asn	Pro	Pro	Ala	Ser	Val	Ser	Gln	Lys	Ala	Gly	Ile
		180						185					190		
Ile	Asp	Ile	Ser	His	Cys	Ala	Gln	Pro	Ile	Leu	Glu	Ser	Leu	Met	Phe
	195					200							205		

Ile Pro Asn Pro Lys Gly Arg His Tyr Pro His Phe Met Glu Lys Asp
 210 215 220
 Thr Glu Ala Gln Lys Gly Ala Val Thr Arg Pro Arg Pro Pro Cys
 225 230 235

<210> 2579

<211> 243

<212> PRT

<213> Homo sapiens

<400> 2579

Met Leu Ser Arg Trp Ser Ala Ser Phe Thr Val Thr Lys Gly Lys Ser
 1 5 10 15
 Ser Thr Gln Glu Ala Thr Gly Gln Ala Val Ser Thr Ala His Pro Pro
 20 25 30
 Thr Gly Lys Arg Leu Lys Lys Thr Pro Glu Lys Lys Thr Gly Asn Lys
 35 40 45
 Asp Cys Lys Ala Asp Ile Ala Phe Leu Ile Asp Gly Ser Phe Asn Ile
 50 55 60
 Gly Gln Arg Arg Phe Asn Leu Gln Lys Asn Phe Val Gly Lys Val Ala
 65 70 75 80
 Leu Met Leu Gly Ile Gly Thr Glu Gly Pro His Val Gly Leu Val Gln
 85 90 95
 Ala Ser Glu His Pro Lys Ile Glu Phe Tyr Leu Lys Asn Phe Thr Ser
 100 105 110
 Ala Lys Asp Val Leu Phe Ala Ile Lys Glu Val Gly Phe Arg Gly Gly
 115 120 125
 Asn Ser Asn Thr Gly Lys Ala Leu Lys His Thr Ala Gln Lys Phe Phe
 130 135 140
 Thr Val Asp Ala Gly Val Arg Lys Gly Ile Pro Lys Val Val Val Val
 145 150 155 160
 Phe Ile Asp Gly Trp Pro Ser Asp Asp Ile Glu Glu Ala Gly Ile Val
 165 170 175
 Ala Arg Glu Phe Gly Val Asn Val Phe Ile Val Ser Val Ala Lys Pro
 180 185 190

Ile Pro Glu Glu Leu Gly Met Val Gln Asp Val Thr Phe Val Asp Lys
 195 200 205
 Ala Val Cys Arg Asn Asn Gly Phe Phe Ser Tyr His Met Pro Asn Trp
 210 215 220
 Phe Gly Thr Thr Lys Tyr Glu Ser Leu Trp Tyr Arg Ser Cys Ala Val
 225 230 235 240
 Met Asn Lys

<210> 2580

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2580

Met Val Asn Ile Arg Lys Ala Val Lys Lys Glu Met Glu Arg Ser Val
 1 5 10 15
 Gly Met Val Asn Ser Gln Arg Arg Glu Ala Gly Leu Ala Trp Ser Gln
 20 25 30
 Gln Pro Gly Val Gln His Ser His Ser Pro Gln Lys Glu Gln Lys Ala
 35 40 45
 Thr Cys Ala Leu Phe Cys Arg Cys Ala Phe Pro Thr Pro Pro Trp Gly
 50 55 60
 Pro Leu Ala Gln Phe Ser Leu Ala Val Ser Leu Pro Asp Thr His Phe
 65 70 75 80
 Pro Glu Ala Ser Gln Val Ile Ser His His Met Ser Pro Arg Lys Glu
 85 90 95
 Val Phe Gly Thr
 100

<210> 2581

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2581

Met Gly Thr Ala Tyr Val Ala Leu Pro Gln Pro Ser Ser Met Gln Trp
 1 5 10 15
 Pro Gly Ser Asn Gln Arg Ser Pro Gly Arg Val Ser Cys Lys Asn Leu
 20 25 30
 Gly Lys Arg Ala Gln Gly Gly Cys Arg Leu Leu Thr Ala Cys Leu Asp
 35 40 45
 Arg Pro His Gly Ala Ser Pro His Ile Ala Arg Ala Leu Ala Ser Pro
 50 55 60
 Leu Pro Thr Cys Lys Arg Gly Cys Trp Gln Gln His Phe Thr Thr Arg
 65 70 75 80
 Asn Leu Tyr Ser Asn Ser Lys His Ala Leu Thr His Ser Val Asn Tyr
 85 90 95
 Pro Leu Ser Trp Pro Thr Glu Val Asp Ser Phe Arg Pro Pro Phe Val
 100 105 110
 Gln Met Arg Lys Leu Arg Leu Thr Pro Lys Pro Gly Gly Phe Gln Met
 115 120 125
 Trp Ser Gly Ser Leu Cys Pro Gly Asp Glu Gly Thr Arg Arg Val Trp
 130 135 140
 Ser Arg Ala Gly Val Gly Leu Arg Cys Ser Arg Leu Ala Val Lys Gly
 145 150 155 160
 Ala Arg Cys Glu Pro Gly Cys Trp Val
 165

<210> 2582

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2582

Met Leu Ala Ala Lys Gln Ser Tyr Lys Met Cys Leu Asp Leu Ile Phe
 1 5 10 15
 Pro Trp Thr Gln Pro Gln Asp Gly Pro Ala Arg Leu Trp Arg Ser Trp
 20 25 30

Asp	Ser	Lys	Val	Ser	Leu	Pro	Val	Cys	Ser	Gly	Ile	Gly	Ser	Trp	Ser
35				40				45							
Trp	Gly	Glu	Gly	Ser	Ile	Trp	Gly	Ser	Ala	Leu	Pro	Pro	Pro	Gly	Pro
50				55				60							
Phe	Leu	Phe	Leu	Ile	Ser	Ser	Gln	Ser	Leu	Met	Gln	Gln	Gln	Ser	Lys
65				70				75				80			
Phe	Ser	Phe	Ser	Thr	Asp	Ser	Gly	Leu	Glu	Phe	Ser	Thr	Asn	Cys	Leu
85				90				95							
His	Leu	Pro	Gly	His	Ile	Pro	Asn	Arg							
100				105											

<210> 2583

 $\langle 211 \rangle$ 180

<212> PRT

<213> Homo sapiens

<400> 2583

Met	Ala	Cys	Gly	Ala	Thr	Leu	Lys	Arg	Pro	Met	Glu	Phe	Glu	Ala	Ala
1				5					10					15	
Leu	Leu	Ser	Pro	Gly	Pro	Thr	Pro	Gly	Leu	Arg	Pro	Pro	Asp	Ala	Glu
			20					25					30		
Pro	Pro	Pro	Pro	Phe	Gln	Thr	Gln	Thr	Pro	Pro	Gln	Ser	Leu	Gln	Gln
			35					40				45			
Pro	Ala	Pro	Pro	Gly	Ser	Glu	Arg	Arg	Leu	Pro	Thr	Pro	Glu	Gln	Ile
	50					55				60					
Phe	Gln	Asn	Ile	Lys	Gln	Glu	Tyr	Ser	Arg	Tyr	Gln	Arg	Trp	Arg	His
65				70					75					80	
Leu	Glu	Val	Val	Leu	Asn	Gln	Ser	Glu	Ala	Cys	Ala	Ser	Glu	Ser	Gln
			85					90				95			
Pro	His	Ser	Ser	Ala	Leu	Thr	Ala	Pro	Ser	Ser	Pro	Gly	Ser	Ser	Trp
		100						105				110			
Met	Lys	Lys	Asp	Gln	Pro	Thr	Phe	Thr	Leu	Arg	Gln	Val	Gly	Ile	Ile
	115					120					125				
Cys	Glu	Arg	Leu	Leu	Lys	Asp	Tyr	Glu	Asp	Lys	Ile	Arg	Glu	Glu	Tyr
130					135					140					

Glu Gln Ile Leu Asn Thr Lys Leu Ala Glu Gln Tyr Glu Ser Phe Val
 145 150 155 160
 Lys Phe Thr His Asp Gln Ile Met Arg Arg Tyr Gly Thr Arg Pro Thr
 165 170 175
 Ser Tyr Val Ser
 180

<210> 2584

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2584

Met Cys Leu Phe Pro Arg Gln His Leu Asp Leu Ala Ala Trp Ser Gln
 1 5 10 15
 Gly Leu Ser Pro Pro Arg Arg Val Pro Ser Ser Gly Val Gly Gly Arg
 20 25 30
 Pro Thr Leu Pro Gln Gly Val Pro Phe Asp Gly Lys Cys Ser Gln Gln
 35 40 45
 Arg Gly Gly Val Trp Ala Thr Phe Arg Arg Trp Met Trp Trp Pro Arg
 50 55 60
 Pro Arg Pro Arg Arg Val Met Ala Phe Pro Phe Cys Arg Cys Gly Gln
 65 70 75 80
 Val Gly Leu Gly Pro Val Leu Gly Pro Leu Leu Ala Val Cys Glu Gly
 85 90 95
 Pro Gly Gly Arg Arg Gly Pro Asp Ser Ile Pro Ile Lys His Thr Gly
 100 105 110
 Thr

<210> 2585

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2585

Met Phe Glu Ser Pro Gly Trp Ala Val Phe Ala Phe Leu Asp Asn Asp
 1 5 10 15
 Cys Gln His Gln Gln Gly Cys Leu Arg Met His Ala Leu Val Leu Gly
 20 25 30
 Pro Glu Ser Gln Arg Glu Leu Pro Leu Leu Ala Arg Ala Gln Ala Ala
 35 40 45
 Val Glu Glu Gln His Pro Gln Gly Ser Val Asp Gly Lys Asp Ala Trp
 50 55 60
 Leu Arg Ala Gly Asp Gly Val Pro Asp Glu Ser Val Pro Pro Thr Val
 65 70 75 80
 Ser Val Phe Arg Thr Cys Glu Val Gln Gly Cys Ala Arg Gly Arg Gly
 85 90 95
 Leu Gly Tyr Ser Asn Leu Ile Arg Gly Pro Glu Glu Arg Trp Val Val
 100 105 110
 Val Ile Asp Ile His Asp Cys Tyr Val Asp Leu Gly Ala Ala Ala Gly
 115 120 125
 Trp Gly Ala Ala Glu Leu Arg Leu His Arg Glu His Asn His Gly Leu
 130 135 140
 Arg Leu Val Ile Gln Gly Leu Pro Gly Ala Asn Ser Ala Gln Pro Arg
 145 150 155 160
 Val Asn Gly Glu Leu Ser Ala Glu Ile Thr Arg Arg Asn Pro Val Lys
 165 170 175
 Asp Trp Phe

<210> 2586

<211> 306

<212> PRT

<213> Homo sapiens

<400> 2586

Met Leu Ala Lys Gln Tyr Gly His Met Lys Ile Val Ala Leu Met Asp
 1 5 10 15

Thr Tyr Ser Pro Ser Leu Pro Lys Ser Leu Tyr Arg Ser Pro Glu Lys
 20 25 30
 Tyr Glu Asp Leu Ser Ser Ser Asp Glu Ser Cys Pro Ala Pro Gln Arg
 35 40 45
 Gln Arg Pro Cys Arg Lys Lys Gly Val Ser Ile His Glu Gly Pro Arg
 50 55 60
 Ala Leu Ala Arg Ile Thr Gly Ile Gly Leu Gly Gly Arg Ala Pro Arg
 65 70 75 80
 Pro Arg Tyr Glu Gln Ala Pro Pro Arg Gly Tyr Val Thr Phe Asn Ser
 85 90 95
 Ser Gly Glu Asn Pro Leu Glu Glu Glu Gly Leu Cys Cys Arg Asp Val
 100 105 110
 Thr Ser Pro Ile Asn Glu Arg Asp Val Glu Ser Ser Ser Ser Ser Ser
 115 120 125
 Ser Arg Glu Glu His Ala Phe Cys Ala Asn Leu Gly Pro Val Gln Ser
 130 135 140
 Ser Ser Ser Ser Glu Gly Leu Ala Arg Ala Gln Gly Leu Ser Ser Glu
 145 150 155 160
 Ala Ser Val Glu Ser Asn Glu Asp Ser Asp His Ala Cys Lys Ser Ser
 165 170 175
 Ala Arg Lys Gln Ala Lys Ser Tyr Met Lys Thr Lys Asn Pro Asp Ser
 180 185 190
 Gln Trp Pro Pro Arg Ala Ala Thr Asp Arg Glu Gly Phe Leu Ala Glu
 195 200 205
 Ser Ser Pro Gln Thr Gln Arg Ala Pro Tyr Ser Gly Pro Gln Val Arg
 210 215 220
 Pro Leu Val Lys Leu Glu Val Thr Leu Arg Asp Gly Thr Phe Cys Asp
 225 230 235 240
 Leu Gly Gly Met Cys Cys Val Tyr Asp Val Pro Gly Ala Ala Arg Arg
 245 250 255
 Thr Glu Trp Arg Trp His Pro His Gly Leu Leu Gly Ser Thr Gly Ser
 260 265 270
 Gln Pro Ala Pro Trp Leu Ala Ala Pro Leu Gln Arg Phe Tyr Ser Val
 275 280 285
 Pro Leu His Gly Lys Asp Leu Ser Pro Cys Phe Pro Tyr Trp Ser Trp
 290 295 300

Pro Pro

305

<210> 2587

<211> 443

<212> PRT

<213> Homo sapiens

<400> 2587

Met Thr His Thr Leu Pro Ser Ser Tyr His Asn Asp Ala Arg Ser Ser

1 5 10 15

Leu Ser Val Ser Leu Glu Pro Glu Ser Leu Gly Leu Gly Ser Ala Asn

20 25 30

Ser Ser Gln Asp Ser Leu His Lys Ala Pro Lys Lys Lys Gly Ile Lys

35 40 45

Ser Ser Ile Gly Arg Leu Phe Gly Lys Lys Glu Lys Ala Arg Leu Gly

50 55 60

Gln Leu Arg Gly Phe Met Glu Thr Glu Ala Ala Ala Gln Glu Ser Leu

65 70 75 80

Gly Leu Gly Lys Leu Gly Thr Gln Ala Glu Lys Asp Arg Arg Leu Lys

85 90 95

Lys Lys His Glu Leu Leu Glu Glu Ala Arg Arg Lys Gly Leu Pro Phe

100 105 110

Ala Gln Trp Asp Gly Pro Thr Val Val Ala Trp Leu Glu Leu Trp Leu

115 120 125

Gly Met Pro Ala Trp Tyr Val Ala Ala Cys Arg Ala Asn Val Lys Ser

130 135 140

Gly Ala Ile Met Ser Ala Leu Ser Asp Thr Glu Ile Gln Arg Glu Ile

145 150 155 160

Gly Ile Ser Asn Pro Leu His Arg Leu Lys Leu Arg Leu Ala Ile Gln

165 170 175

Glu Met Val Ser Leu Thr Ser Pro Ser Ala Pro Pro Thr Ser Arg Thr

180 185 190

Cys Pro Val Phe Leu Gln Thr Leu Ala Tyr Gly Asp Met Asn His Glu

195 200 205

Trp Ile Gly Asn Glu Trp Leu Pro Ser Leu Gly Leu Pro Gln Tyr Arg
 210 215 220
 Ser Tyr Phe Met Glu Cys Leu Val Asp Ala Arg Met Leu Asp His Leu
 225 230 235 240
 Thr Lys Lys Asp Leu Arg Val His Leu Lys Met Val Asp Ser Phe His
 245 250 255
 Arg Thr Ser Leu Gln Tyr Gly Ile Met Cys Leu Lys Arg Leu Asn Tyr
 260 265 270
 Asp Arg Lys Glu Leu Glu Arg Arg Arg Glu Ala Ser Gln His Glu Ile
 275 280 285
 Lys Asp Val Leu Val Trp Ser Asn Asp Arg Val Ile Arg Trp Ile Gln
 290 295 300
 Ala Ile Gly Leu Arg Glu Tyr Ala Asn Asn Ile Leu Glu Ser Gly Val

 305 310 315 320
 His Gly Ser Leu Ile Ala Leu Asp Glu Asn Phe Asp Tyr Ser Ser Leu
 325 330 335
 Ala Leu Leu Leu Gln Ile Pro Thr Gln Asn Thr Gln Ala Arg Gln Ile
 340 345 350
 Leu Glu Arg Glu Tyr Asn Asn Leu Leu Ala Leu Gly Thr Glu Arg Arg
 355 360 365
 Leu Asp Glu Ser Asp Asp Lys Asn Phe Arg Arg Gly Ser Thr Trp Arg
 370 375 380
 Arg Gln Phe Pro Pro Arg Glu Val His Gly Ile Ser Met Met Pro Gly
 385 390 395 400
 Ser Ser Glu Thr Leu Pro Ala Gly Phe Arg Leu Thr Thr Thr Ser Gly
 405 410 415
 Gln Ser Arg Lys Met Thr Thr Asp Val Ala Ser Ser Arg Leu Gln Arg
 420 425 430
 Leu Asp Asn Ser Thr Val Arg Thr Tyr Ser Cys
 435 440

<210> 2588

<211> 183

<212> PRT

<213> Homo sapiens

<400> 2588

```

Met Arg Glu Tyr Lys Val Val Val Leu Gly Ser Gly Gly Val Gly Lys
  1             5             10            15
Ser Ala Leu Thr Val Gln Phe Val Thr Gly Thr Phe Ile Glu Lys Tyr
      20             25             30
Asp Pro Thr Ile Glu Asp Phe Tyr Arg Lys Glu Ile Glu Val Asp Ser
      35             40             45
Ser Pro Ser Val Leu Glu Ile Leu Asp Thr Ala Gly Thr Glu Gln Phe
      50             55             60
Ala Ser Met Arg Asp Leu Tyr Ile Lys Asn Gly Gln Gly Phe Ile Leu
      65             70             75             80
Val Tyr Ser Leu Val Asn Gln Gln Ser Phe Gln Asp Ile Lys Pro Met
      85             90             95
Arg Asp Gln Ile Val Arg Val Lys Arg Tyr Glu Lys Val Pro Leu Ile
      100            105            110
Leu Val Gly Asn Lys Val Asp Leu Glu Pro Glu Arg Glu Val Met Ser
      115            120            125
Ser Glu Gly Arg Ala Leu Ala Gln Glu Trp Gly Cys Pro Phe Met Glu
      130            135            140
Thr Ser Ala Lys Ser Lys Ser Met Val Asp Glu Leu Phe Ala Glu Ile
      145            150            155            160
Val Arg Gln Met Asn Tyr Ser Ser Leu Pro Glu Lys Gln Asp Gln Cys
      165            170            175
Cys Thr Thr Cys Val Val Gln
      180

```

<210> 2589

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2589

```

Met Ala Ala His Pro Arg Arg Cys Pro Asp Asn Thr Cys Val Pro Cys

```

```

      1             5             10             15
Ile Gly Ser Leu Met Gly Leu Gly Asp Ile Ile Ser Gln Gln Leu Val
      20             25             30
Glu Arg Arg Gly Leu Gln Glu His Gln Arg Gly Arg Thr Leu Thr Met
      35             40             45
Val Ser Leu Gly Cys Gly Phe Val Val Ser Ser Pro Leu Asn Arg Ala
      50             55             60
Ser Val Asp Ser Thr Val Val Leu Val Leu Cys His Pro Leu Ala Ser
      65             70             75             80
Leu Gly Leu Ser His Leu Ser Gln Pro Ala Ala Leu Phe Phe Leu Ser
      85             90             95
Val His Phe Pro Tyr Ser Asp Thr Trp Gly Arg Glu Leu Ser Glu Val
      100            105            110
Glu Ala

```

<210> 2590

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2590

```

Met Pro Phe Ser Cys Asn Val Leu His Val His Val Lys Ser Ser Pro
      1             5             10             15
Ser Arg Pro Cys Leu Ala Leu Thr Leu Ile Pro Phe Glu Gly His Leu
      20             25             30
Leu Trp Thr Val Val Leu Cys Asn Leu Gln Ile Ser His Thr Leu Gln
      35             40             45
Gln Met Gln Ile His Ile Glu Ile Ser Gly Ser Ile Cys Gly Leu Glu
      50             55             60
Thr His Gly Ala Ile Phe Ile Phe Arg Ser Thr Ala Arg Phe Trp His
      65             70             75             80
Pro Ala Val Gly Cys Gly Ala Pro His Ala Arg Thr Phe Leu Phe Phe
      85             90             95
Leu Lys Asn Ser Ser

```

100

<210> 2591

<211> 174

<212> PRT

<213> Homo sapiens

<400> 2591

```

Met Arg Pro Ser Pro Val Gly Leu Arg Asp Arg Lys His Met Leu Gly
  1             5             10             15
Gln Gly Tyr Thr His Thr His Thr His Thr His Thr His Thr His Ser
      20             25             30
Gly Ala Gly Met Asp Met Asn Asn Asn Leu Ser Pro Asn Cys Trp Leu
      35             40             45
Glu Gln Asp Val Gly Cys Lys His Arg Gln Ala Ser Asn Thr Pro Pro
      50             55             60
Leu Gly Leu Arg Cys Pro His Ala Val Thr Gln Pro Ala Leu His Thr
      65             70             75             80
Cys Val Ser Gln Leu His Thr Leu Pro Gly Cys Thr Arg Thr Ser Arg
      85             90             95
Ala Gly Arg Ser His Pro His Pro Thr Leu Gln Asn Pro Leu Pro Gln
      100            105            110
Pro His Ser Leu Pro Leu Gly Leu Ala Cys Leu Gly Ser Leu Gly Leu
      115            120            125
Ala Thr Pro Ala Pro Lys Ile Gly Gly Pro Ala Arg Pro Gly Val Arg
      130            135            140
Pro Gly Gly Lys Glu Trp Gly Thr Leu Thr Pro Ile Gly Leu Ser Pro
      145            150            155            160
Ala Glu Arg Arg Pro Pro Asn Val Leu Leu Cys Pro Gly Gly
      165            170

```

<210> 2592

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2592

```

Met Tyr Thr His Ile His Met Cys Ile Cys Met Tyr Thr His Met His
  1              5              10              15
Met Cys Thr Tyr Val Cys Ile His Ile His Ile Cys Val His Ile Tyr
      20              25              30
Ile Cys Met Tyr Thr His Arg Tyr Met Cys Thr Arg Lys His Met Tyr
      35              40              45
Thr His Lys His Met Tyr Val Tyr Thr Tyr Ile Tyr Val Tyr Thr Tyr
      50              55              60
Thr Tyr Val Cys Val His Ile His Ile Cys Val His Ile Tyr Leu Cys
      65              70              75              80
Met Tyr Thr His Thr Tyr Met Cys Ala His Ile His Met Cys Val Tyr
      85              90              95
Thr Tyr Ile Tyr Val Tyr Ile Tyr Thr His Ile His Ile Cys Val His
      100             105             110
Ile Asn Met Tyr Val Ser Ile Tyr Val Tyr Ile Tyr Thr Cys Ile Gln
      115             120             125
Ile Tyr Ile Tyr Met Tyr Thr Leu Tyr Val Cys Thr Tyr Thr Tyr Met
      130             135             140
Cys Thr Tyr Ile His Ile Cys Ile His Thr Ser Ile Ile Tyr Val Cys
      145             150             155             160
Val Tyr Ile His Ile Gln Cys Pro Leu Asn Ile Tyr Ile Tyr Leu Val
      165             170             175
Cys Met Cys Val
      180

```

<210> 2593

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2593

```

Met Leu Val Phe Ala Leu Pro Pro Cys Pro Ser His Cys Tyr Ser Gly

```

1	5	10	15
Gln Phe Val	Ala Leu Trp Leu Leu Met	Ala Leu Cys Leu Val	Ile Met
20	25	30	
Gln Gly Ala	Gln Gly Asn Lys Phe Ser Val	Asp Ile Leu Lys Thr	Asp
35	40	45	
Ser Leu Thr	Gly Val Leu Glu Leu Glu Lys Glu Thr	Ala Val Asp	Val
50	55	60	
Trp Cys Gly	Pro Ile Leu Arg Ala Leu Ser Val	Arg Gln Glu Ser	Tyr
65	70	75	80
Thr Cys Asp	Thr Asn Phe Phe Arg Tyr His Cys Ser	Ile Asn Ile	Gln
85	90	95	
Thr Ser Leu	Ser Pro Cys Thr Pro Thr Ser Glu	Asn	
100	105		

<210> 2594

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2594

Met Ile Pro	Gly Pro Arg Phe His Arg	Ala Glu Thr Ser	His Trp Tyr
1	5	10	15
Cys Ser Val	Val Cys His Ala Lys Pro Leu Thr Tyr	Arg Leu His	Glu
20	25	30	
His Gly Leu	Phe Met Gln Leu Ser Phe Arg Val	Ile Tyr Cys	Ala Asp
35	40	45	
Ile Ile Thr	Arg Thr Thr Leu Gln Phe Pro Ser Tyr	Val Leu Leu	Ser
50	55	60	
Tyr Ile Leu	Ser Val Leu Cys Val Leu Ile Leu Leu	Ser Cys Thr	Leu
65	70	75	80
Met Phe Phe	Asn Ser Lys Thr Leu Tyr Ser Gln Cys	Leu Cys Leu	Tyr
85	90	95	
Ile His Ile	Tyr Ile Lys Leu Ser Leu Leu Phe Ile	Ile Phe Cys	Ile
100	105	110	

<210> 2595

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2595

```

Met Phe Gly Ser Ser Arg Gly Gly Val Arg Gly Gly Gln Asp Gln Phe
  1             5             10             15
Asn Trp Glu Asp Val Lys Thr Asp Lys Gln Arg Glu Asn Tyr Leu Gly
      20             25             30
Asn Ser Leu Met Ala Pro Val Gly Arg Trp Gln Lys Gly Arg Asp Leu
      35             40             45
Thr Trp Tyr Ala Lys Gly Arg Ala Pro Cys Ala Gly Pro Ser Arg Glu
      50             55             60
Glu Glu Leu Ala Ala Val Arg Glu Ala Glu Arg Glu Ala Leu Leu Ala
      65             70             75             80
Ala Leu Gly Tyr Lys Asn Val Lys Lys Gln Pro Thr Gly Leu Ser Lys
      85             90             95
Glu Asp Phe Ala Glu Val Cys Lys Arg Glu Gly Gly Asp Pro Glu Glu
      100            105            110
Lys Gly Val Asp Arg Leu Leu Gly Leu Gly Ser Ala Arg Cys Gly Arg
      115            120            125
Val Ser Arg Gly Gly Gln His Trp Ala Arg Leu Leu Gly
      130            135            140

```

<210> 2596

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2596

```

Met His Thr Tyr Ile Tyr Met Cys Val Tyr Pro Tyr Ile Cys Ile Tyr
  1             5             10             15
Met His Val Tyr Pro Cys Ile Cys Ile Tyr Leu His Val Tyr Thr Tyr

```


	20		25		30										
Ile	Cys	Met	Tyr	Ile	His	Ile	Tyr	Pro	Tyr	Leu	Cys	Met	Tyr	Val	His
	35		40		45										
Ile	Tyr	Pro	Tyr	Ile	Cys	Thr	Cys	Ile	Tyr	Thr	His	Ile	Cys	Met	Arg
	50		55		60										
Val	His	Val	Tyr	Ala	Tyr	Met	Tyr	Val	Arg	Thr	Tyr	Ile	His	Ile	Met
65			70		75				80						
Cys	Met	His	Val	Cys	Val	Tyr	Val	Cys	Val	His	Ala	Cys	Met	Cys	Val
	85		90		95										
Cys	Thr	Cys	Ala	Tyr	Thr	His	Val	Phe	Val	Cys	Val	Arg	Val	Arg	Thr
	100		105		110										
Cys	Val	Tyr	Met	Arg	Thr	His	Thr	His	Ile	Cys	Val	Tyr	Ala	Cys	Ala
	115		120		125										
Cys	Ala	His	Met	Cys	Val	Cys	Val	Arg	Val	His	Thr	Tyr	Val	Cys	Met
	130		135		140										
Arg	Ala	Tyr	Ile	His	Ala	Tyr	Met	Tyr	Val	Arg	Thr	Tyr	Ile	Cys	Ile
145			150		155				160						
Phe	Met	Phe	Tyr	Val	Tyr	Val	Phe	Tyr	Met	Tyr	Ile	Tyr	Leu	His	Ile
	165		170		175										
Leu	His	Tyr	Phe	His	Glu	Glu	Ile	Gly	Ala	Gln	Gly	Ser			
	180		185												

<210> 2597

<211> 258

<212> PRT

<213> Homo sapiens

<400> 2597

Met	Trp	Arg	Tyr	Arg	Ser	Trp	Asp	Val	Pro	Gln	Ile	Pro	Ser	Glu	Ala
1		5		10		15									
Pro	Gln	Thr	Gln	Lys	Ala	Ile	Thr	Lys	Ser	Gly	Leu	Gln	His	Leu	Ala
	20		25		30										
Pro	Pro	Pro	Pro	Thr	Pro	Gly	Ala	Pro	Cys	Ser	Glu	Ser	Glu	Arg	Gln
	35		40		45										
Ile	Arg	Ser	Thr	Val	Asp	Trp	Ser	Glu	Ser	Ala	Thr	Tyr	Gly	Glu	His

50	55	60
Ile Trp Phe Glu Thr Asn Val Ser Gly Asp Phe Cys Tyr Val Gly Glu		
65	70	75
Gln Tyr Cys Val Ala Arg Met Leu Val Ser Ala Arg Arg Gly Thr Pro		
85	90	95
Pro Pro Ala Gly Gly Ala Ser Ser Arg Ser Pro Ser Gly Asn Val Gly		
100	105	110
Leu Ser Pro Leu Pro Gly Thr Pro Ala Val Gly Arg Pro Arg Met Val		
115	120	125
Arg Gly Ala Gly Ala Leu Ser Gly Cys Gln Asp Trp Gly Phe Pro Val		
130	135	140
His Thr Lys Gly Ser Cys Ala Gly Ala Gly Ser Leu Arg Asp Arg Leu		
145	150	155
Thr Trp Cys Leu Arg Gly Pro Leu Phe Leu Ser Cys Ser Arg Ser Gln		
165	170	175
Cys Leu Glu Glu Ser Ala Gln Pro Ala Arg Leu Trp Cys Thr Arg Pro		
180	185	190
Ala Ser Ser Ser Trp Arg Arg Trp Val Gly Ser Ser Ala Leu Pro Ala		
195	200	205
Pro Ala Leu Trp Val Leu Arg Pro Phe Gln Arg Ala Leu Thr Pro Thr		
210	215	220
Cys Tyr Thr Asn Gly Leu Pro Gly Val Thr Gln His Ser Gly Val Lys		
225	230	235
Ser Gln Gly Pro Trp Ser Gln Met Pro Ala Phe Glu Ser Trp Leu Leu		
245	250	255
Thr Asp		

<210> 2598

<211> 159

<212> PRT

<213> Homo sapiens

<400> 2598

Met Tyr Lys Glu Arg Asn Lys Tyr Leu Lys Tyr Asn Leu Pro Asp Ser

1	5	10	15
Gln Ala Ser Lys Met Pro Gly Arg Gly Ser Ala Arg Ala Lys Leu Thr			
20	25	30	
His Ser Gly Gln Ser Val Ser Phe Pro Pro His Gly Lys Asp Glu Ile			
35	40	45	
Ser Ser Gln Lys Ile Arg Cys Ala Gly Gly Lys Arg Glu Trp Gly Glu			
50	55	60	
Gly Glu Gly Gly Lys Lys Arg Val Ala Arg Arg Gln Glu Cys Val Ser			
65	70	75	80
Val Ser Arg Lys Phe Ser Gln Met Ile Leu Ser Arg Leu Thr His Phe			
85	90	95	
Val Thr Leu Ser Leu Thr Leu Glu Arg Arg Gly Lys Thr Gln Pro Pro			
100	105	110	
Phe Phe Phe Pro Leu Ile Ile Pro His Tyr Leu His Thr Ala Leu Glu			
115	120	125	
Ser Glu Met Ser Thr Arg Ser Gly Arg Cys Pro Ala Ala Ala Cys His			
130	135	140	
Arg Cys Gly Pro Phe Val Thr Cys Lys Val Cys Cys Phe Cys Pro			
145	150	155	

<210> 2599

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2599

Met Glu Ala Gly Pro His Pro Arg Pro Gly His Cys Cys Lys Pro Gly			
1	5	10	15
Gly Arg Leu Asp Met Asn His Gly Phe Val His His Ile Arg Arg Asn			
20	25	30	
Gln Ile Ala Arg Asp Asp Tyr Asp Lys Lys Val Lys Gln Ala Ala Lys			
35	40	45	
Glu Lys Val Arg Arg Arg His Thr Pro Ala Pro Thr Arg Pro Arg Lys			
50	55	60	
Pro Asp Leu Gln Val Tyr Leu Pro Arg His Arg Gly Glu Ala Ala Arg			

65 70 75 80
 Pro Ala Cys Leu Gln Pro Ala Arg Ser Ser Cys Asn Ala Leu Pro Phe
 85 90 95
 Ser Ile Gly Lys Asn His Phe Leu Leu Leu Arg Phe Ser Ser Ser Arg
 100 105 110
 Leu Phe Pro Glu Pro Pro Pro Gln Arg Ser Gln Ile Ser Ala Glu
 115 120 125

<210> 2600

<211> 154

<212> PRT

<213> Homo sapiens

<400> 2600

Met Pro Val Gly Glu Arg Gly Phe Ala Arg Val Tyr Val Phe Phe Lys
 1 5 10 15
 Thr Val Asp Leu Tyr Asn Trp Lys Ser His Ser Lys Gly Leu Trp Val
 20 25 30
 Ser Pro Arg Glu Phe Val Thr Leu Ile Trp Arg Ile Phe Ser Thr His
 35 40 45
 Asn Pro Thr Trp Pro Gly Val Gln Thr Val Thr Ala Thr Leu Leu Thr
 50 55 60
 Ala Glu Asp Lys Ser Ala Thr Met Ala Lys Thr Lys Glu Glu Ala Asp
 65 70 75 80
 Asn Met Cys Ala Asp Asn Leu Val Thr Trp Pro Val Glu Val Ser Val
 85 90 95
 Pro Ile Ala Asn Pro Asn Trp Asp Pro Ser Asp Asn Lys Asn Gln Glu
 100 105 110
 Trp Leu His His Tyr Arg Asn Met Leu Leu Arg Gly Met Arg Glu Ala
 115 120 125
 Ser Gln Ser Leu Val Asn Trp Gly Asn Leu Arg Glu Ile Glu Gln Gly
 130 135 140
 Pro Asn Glu Asn Pro Ser Ala Phe Leu Asn
 145 150

<210> 2601

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2601

```

Met Val Ser Phe Ser Thr Gly Pro Ser Arg His Pro Ser Leu Ile Ser
  1             5             10             15
Ser Asp Ser Asn Asn Leu Lys Leu Asn Asn Val Arg Leu Pro Arg Glu
             20             25             30
Asn Met Ser Leu Pro Ser Asn Leu Gln Leu Asn Asp Leu Thr Pro Asp
             35             40             45
Ser Arg Ala Val Lys Pro Ala Asp Arg Gln Met Ala Gln Asn Asn Ser
             50             55             60
Arg Pro Glu Leu Leu Asp Pro Glu Pro Gly Gly Leu Leu Thr Ser Gln
             65             70             75             80
Gly Phe Ile Arg Leu Pro Val Leu Gly Tyr Ile Tyr Arg Val Ser Ser
             85             90             95
Val Ser Ser Asp Glu Ile Trp Leu
             100

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<210> 2602

<211> 888

<212> PRT

<213> Homo sapiens

<400> 2602

```

Met His Cys Pro Gly Glu Ala Pro Leu Ala Ala Pro Arg Pro Thr Pro
  1             5             10             15
Lys Asp Pro Cys Leu Arg Asn Val Leu Ala Lys Ala Leu Tyr Asp Asn
             20             25             30
Val Ala Glu Ser Pro Asp Glu Leu Ser Phe Arg Lys Gly Asp Ile Met
             35             40             45
Thr Val Leu Glu Gln Asp Thr Gln Gly Leu Asp Gly Trp Trp Leu Cys

```

50	55	60
Ser Leu His Gly Arg Gln Gly Ile Val Pro Gly Asn Arg Leu Lys Ile		
65	70	75
Leu Val Gly Met Tyr Asp Lys Lys Pro Ala Gly Pro Gly Pro Gly Pro		
85	90	95
Pro Ala Thr Pro Ala Gln Pro Gln Pro Gly Leu His Ala Pro Ala Pro		
100	105	110
Pro Ala Ser Gln Tyr Thr Pro Met Leu Pro Asn Thr Tyr Gln Pro Gln		
115	120	125
Pro Asp Ser Val Tyr Leu Val Pro Thr Pro Ser Lys Ala Gln Gln Gly		
130	135	140
Leu Tyr Gln Val Pro Gly Pro Ser Pro Gln Phe Gln Ser Pro Pro Ala		
145	150	155
Lys Gln Thr Ser Thr Phe Ser Lys Gln Thr Pro His His Pro Phe Pro		
165	170	175
Ser Pro Ala Thr Asp Leu Tyr Gln Val Pro Pro Gly Pro Gly Gly Pro		
180	185	190
Ala Gln Asp Ile Tyr Gln Val Pro Pro Ser Ala Gly Met Gly His Asp		
195	200	205
Ile Tyr Gln Val Pro Pro Ser Met Asp Thr Arg Ser Trp Glu Gly Thr		
210	215	220
Lys Pro Pro Ala Lys Val Val Val Pro Thr Arg Val Gly Gln Gly Tyr		
225	230	235
Val Tyr Glu Ala Ala Gln Pro Glu Gln Asp Glu Tyr Asp Ile Pro Arg		
245	250	255
His Leu Leu Ala Pro Gly Pro Gln Asp Ile Tyr Asp Val Pro Pro Ile		
260	265	270
Arg Gly Leu Leu Pro Ser Gln Tyr Gly Gln Glu Val Tyr Asp Thr Pro		
275	280	285
Pro Met Ala Val Lys Gly Pro Asn Gly Arg Asp Pro Leu Leu Glu Val		
290	295	300
Tyr Asp Val Pro Pro Ser Val Glu Lys Gly Leu Pro Pro Ser Asn His		
305	310	315
His Ala Val Tyr Asp Val Pro Pro Ser Val Ser Lys Asp Val Pro Asp		
325	330	335
Gly Pro Leu Leu Arg Glu Glu Thr Tyr Asp Val Pro Pro Ala Phe Ala		

340	345	350
Lys Ala Lys Pro Phe Asp Pro Ala Arg Thr Pro Leu Val Leu Ala Ala		
355	360	365
Pro Pro Pro Asp Ser Pro Pro Ala Glu Asp Val Tyr Asp Val Pro Pro		
370	375	380
Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly Leu Arg Arg Pro Gly		
385	390	395
Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg Val Leu Pro Pro Glu		
405	410	415
Val Ala Asp Gly Gly Val Val Asp Ser Gly Val Tyr Ala Val Pro Pro		
420	425	430
Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys Arg Leu Ser Ala Ser		
435	440	445
Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala Ser Ser Leu Glu Val		
450	455	460
Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu Val Ala Val Glu Ala		
465	470	475
Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr Val Ala His Leu Leu		
485	490	495
Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser Trp Arg Ser Pro Ser		
500	505	510
Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln Ala Ala Val Ala Ala		
515	520	525
Val Gln Ser Ala Val His Glu Leu Leu Glu Phe Ala Arg Ser Ala Val		
530	535	540
Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu His Ala Lys Leu Ser		
545	550	555
Arg Gln Leu Gln Lys Met Glu Asp Val His Gln Thr Leu Val Ala His		
565	570	575
Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser Gly Ala Thr Leu Glu		
580	585	590
Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala Val Pro Glu Asp Ala		
595	600	605
Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala Ser Leu Leu Phe Arg		
610	615	620
Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly Gly Gly Thr Leu His		

625	630	635	640
Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln Ser Arg Pro Leu Pro			
	645	650	655
Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro Asp Gly Gln Tyr Glu			
	660	665	670
Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp Tyr Val His Leu Gln			
	675	680	685
Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Glu Leu Leu Glu Lys Gly			
	690	695	700
Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu Leu Gln Gln Leu Lys			
705	710	715	720
Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg Leu Ile Asp His Asp			
	725	730	735
Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala Pro Gly Arg Thr Gly			
	740	745	750
Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu Phe Tyr Leu Glu Gln			
	755	760	765
Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala Val Asp Ala Phe Phe			
	770	775	780
Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile Phe Val Ala His Ser			
785	790	795	800
Lys Phe Val Ile Leu Ser Ala His Lys Leu Val Phe Ile Gly Asp Thr			
	805	810	815
Leu Ser Arg Gln Ala Lys Ala Ala Asp Val Arg Ser Gln Val Thr His			
	820	825	830
Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly Ile Val Ala Thr Thr			
	835	840	845
Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser Ala Ala Gln Asp Met			
	850	855	860
Val Glu Arg Val Lys Glu Leu Gly His Ser Thr Gln Gln Phe Arg Arg			
865	870	875	880
Val Leu Gly Gln Leu Ala Ala Ala			
	885		

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2603

```

Met Pro Gly Gly Gly Asn Leu Arg Ser Gly Lys Asn Phe Val Leu Phe
  1             5             10             15
Pro Glu Lys Lys Lys Lys Lys Lys Lys Asp His Arg Val Arg Arg Asn
          20             25             30
Phe Phe Phe Leu Arg Trp Arg Leu Leu Ser Pro Arg Leu Glu Cys Ser
          35             40             45
Gly Ala Ile Ser Ala His Cys Asn Phe Cys Leu Pro Gly Ser Ser Asn
          50             55             60
Ser Pro Ala Ser Ala Ser Arg Ile Ala Gly Ile Thr Gly Ala His His
          65             70             75             80
His Ala Trp Leu Ile Phe Val Phe Leu Val Asp Thr Gly Phe His Gln
          85             90             95
Val Gly Gln Thr Cys Leu Lys Leu Leu Thr Ser Ser Asp Leu Pro Ala
          100            105            110
Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Met Ser His Tyr Ala Arg
          115            120            125
Arg Glu Arg Asp Ile Asn Leu Lys
          130            135

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<210> 2604

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2604

```

Met Val Ser Thr Trp Arg Pro Lys Glu Ala Ala Ser Arg Ala Arg Asp
  1             5             10             15
Ile Ala Thr Glu Val Ser Pro Trp Leu Ala Ala Ser Ala Ser Ala Ser
          20             25             30
Ala Pro Ser Trp Met Glu Asp Glu Gly Ser Asn Ser Gly Lys Gln Arg

```

35 40 45
 Pro Arg Glu Ala Ala Asp Phe Ser Ile Pro Pro Ser Gly Phe Arg Leu
 50 55 60
 Gly Arg Cys Thr Ala Val Arg Gly Arg Ala His Val Gly Ser Gln Cys
 65 70 75 80
 Val Gln Glu Cys Val Tyr Leu Glu Glu Cys Val Cys Glu Cys Val Pro
 85 90 95
 Gly Pro Val Leu Val Cys Arg Cys
 100

<210> 2605

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2605

Met Glu Arg Ile Leu Pro Gln Leu Pro Ser Arg Gly His Lys Ser Ser
 1 5 10 15
 Glu Leu His Ser Leu Glu Ser Arg Pro Thr Gly Leu His Thr His Val
 20 25 30
 Pro Glu Ile Ser Leu Val Pro Pro Thr Pro Ser Gly Asn Gln Thr Ser
 35 40 45
 Ala His Arg Arg Asp Val Ile Leu Arg Val Gln Pro Pro Thr Ser Thr
 50 55 60
 Gly Pro Pro Leu Pro Pro Leu Ser Leu Val Asn Arg Ala Ile Pro Cys
 65 70 75 80
 Leu Arg Pro Gly Pro Val Asp Ser Asp Leu Thr Ala Asn Met Gly Gln
 85 90 95
 Gln Ser Gly Thr Ser Val Tyr Arg Ala Ser Ser Pro Arg Ser Ser Ala
 100 105 110
 Cys Gln Lys Glu Gly Asp Gln Pro Pro Gly Gly Ala Gln Ser Ser Ala
 115 120 125
 Gly Leu Gly Leu Val Arg Arg Glu Asn Arg Val Ser Arg Gly Trp Val
 130 135 140
 Ser Lys Ser Glu His Ser Thr Ser Gly Gln Gly Thr Ser Ala Asp Thr

145	150	155	160
His Arg Ser Arg			

<210> 2606
<211> 187
<212> PRT
<213> Homo sapiens

<400> 2606															
Met	Ala	Ala	Ala	Gly	Pro	Met	Thr	Gly	Ala	Ala	Ala	Ser	Arg	Ala	Ala
1				5					10					15	
Thr	Ala	Ala	His	Cys	Ser	Gly	Gly	Ser	Lys	Val	Glu	Ala	Val	Arg	Gly
			20					25					30		
Ala	Val	Gln	Gly	Ala	Ala	Gly	Val	Lys	Pro	Pro	Val	Ala	Ala	Ala	Pro
		35					40					45			
Ser	Leu	Leu	Trp	Leu	Cys	Pro	Pro	Gly	Pro	Pro	Val	Leu	Leu	Asp	Pro
	50					55					60				
Leu	Pro	Ser	Trp	Thr	Leu	Cys	Pro	Pro	Gly	Pro	Pro	Ser	Leu	Leu	Gly
65					70					75					80
Pro	Pro	Gly	Pro	Pro	Ala	Leu	Leu	Asp	Pro	Leu	Ser	Ser	Trp	Thr	Pro
				85					90					95	
Cys	Pro	Pro	Gly	Pro	Pro	Val	Cys	Gly	Pro	Cys	Ser	Ser	Pro	Pro	Ser
			100					105					110		
Pro	Thr	His	Asp	Trp	Thr	Pro	Arg	Ser	Ala	Ala	Gly	Val	Trp	Ala	Leu
		115					120					125			
Gly	Val	Leu	Trp	Ala	Ser	Arg	Cys	Leu	Gly	Thr	Ile	Thr	Gly	Ser	Arg
	130					135					140				
Ala	His	Thr	Gln	Pro	Leu	Leu	Pro	Glu	His	Thr	Arg	Gly	Ser	Arg	His
145					150					155					160
Pro	Asp	Glu	Ser	Thr	Val	Pro	Ala	Met	Val	Phe	Arg	Asp	Gly	Glu	Gly
				165					170					175	
Ser	Leu	Ser	Ser	Ala	Gly	Thr	Leu	Gln	Pro	Gly					
			180					185							

<210> 2607

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2607

```

Met Glu Asp Glu Arg Ile Leu Asp Asn Leu Gly Ala Glu Gly Leu His
  1             5             10            15
Gly Ser Glu Trp Glu Trp Arg Arg Trp His Phe Gly Gly Trp Val Glu
          20            25            30
Glu Glu His Arg His Arg Trp Pro Arg Gly Val Trp Ser Thr Asp Lys
      35            40            45
Ser Pro Gly Gly Val Gln Pro Gln Cys Leu Ser Gln Glu Val Ser Ala
      50            55            60
Leu Val Ser Gly Thr Gln Ser Ser Leu Arg Asn Gly Leu Gly Asp Lys
      65            70            75            80
Trp Ser Ala Cys Cys Thr Arg Ala Leu Gly Glu Cys Ala Trp Ser Cys
          85            90            95
Leu Ser Gly His His
          100

```

<210> 2608

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2608

```

Met Ser Leu Leu Lys Ser Tyr Cys Lys Leu Arg Ala Asn Cys Asn Leu
  1             5             10            15
Leu Phe Leu Phe Val Ala Arg Gly Leu His Arg Ser Leu Asn Ile Cys
          20            25            30
Phe Pro Cys His Pro Ala Phe Arg Gly Trp Pro Ala Ile His Thr Pro
          35            40            45

```

Asn Pro Pro Cys Val Ser Asp Ser Trp Pro His Val Asn Phe Cys Thr
 50 55 60
 Cys Leu Phe Leu Gly Gly Val Glu Ala Asn Pro Phe Ser Ser Glu Ala
 65 70 75 80
 Ser Gly Phe Cys Phe Phe Ser Gly Leu Trp Val Glu Gly Lys Thr Pro
 85 90 95
 Lys Ala Pro Leu Ser
 100

<210> 2609

<211> 546

<212> PRT

<213> Homo sapiens

<400> 2609

Met Ser Ser Ala Trp Lys Thr Pro Arg Gly Ser Asp Ala Met Pro Glu
 1 5 10 15
 Ile Met Val Lys Ile Ile Gly Ser Lys His Phe Gln Tyr Leu Val Glu
 20 25 30
 Lys Pro Lys Ile Lys Glu Asn Asp Ser Leu Lys Thr Glu Thr Gln Thr
 35 40 45
 Met His Gln Lys Pro Met Thr Asp Asn Ala Arg Gln Met Ser Arg Asp
 50 55 60
 Thr Pro Val Pro Ile Asn Phe Thr Asp Gln Gln Thr Thr Asp Asn Pro
 65 70 75 80
 Asp Asp Val Lys Glu Lys Lys His Pro Glu Asn Asn Gln Lys Ser Gly
 85 90 95
 Asn Asn Gln Lys Leu Leu Thr Gly Ala Asn Ser Ser Arg Phe Leu Asp
 100 105 110
 Gly Asn Ile Pro Ser Gln Ala Asn Val His Cys Ser Ser Val Pro Thr
 115 120 125
 Gly Asp Gln Ser Leu Ser Tyr Val His Gly Ile Pro Arg Arg Lys Leu
 130 135 140
 Arg Asp Trp Ser Leu Glu Gln Met Val Arg Gly Ser Ser Asp Gln Pro
 145 150 155 160

Glu Asp Ile Gly Gln Ser Pro Ser Gly Thr Thr Asn Glu Asp Ala Phe
 165 170 175
 Leu Leu Ala Leu Val Arg Arg Glu Leu Lys Ser Arg Pro Leu Ser Ser
 180 185 190
 Asn Leu Leu Glu Lys Leu Gln Lys Glu Leu Lys Ile Leu Asp Pro Ile
 195 200 205
 Ser Ser Gly Phe Leu Leu Gln Ser Gln Leu Ser Arg Leu Phe Leu Lys
 210 215 220
 His Glu Val Pro Leu Gln Leu Pro Thr Val Lys Ile Leu Cys Gln Arg
 225 230 235 240
 Phe Ser Lys Arg Gly Ser Pro Glu Met Val Asn Tyr Glu Lys Leu Leu
 245 250 255
 Trp Phe Leu Asn Ser Ala Ala Ser Asp Tyr Pro Gln Gln Asn Lys Ala
 260 265 270
 Ala Ala Asp Leu Arg Lys Thr Glu Ser His Gly Thr His Ser Gln Ser
 275 280 285
 Thr Pro Pro Gln His Ser Ser Ser Gln Pro Glu Val Asn Arg Ser Leu
 290 295 300
 Leu Glu Ile Leu Lys Met Ala Leu Arg Thr Thr Asn Gly Arg Leu Asn
 305 310 315 320
 Ile Asp Asn Leu Asn Leu Ser Phe Arg Lys Glu Asp Arg Ser Phe Ser
 325 330 335
 Gly Cys Leu Pro Leu Pro Lys Val Arg Ala Ile Cys Gly Lys His Gly
 340 345 350
 Leu Tyr Leu Thr Leu Ser Leu Leu Glu Thr Leu Leu Asn His Gln Asp
 355 360 365
 Leu Gly Tyr Gln Asn Glu Ile Lys Trp Gln Asn Phe Val Glu Met Leu
 370 375 380
 Thr Arg Ala Ser Ser Asp Leu Leu Ser Asp Leu Pro Thr Gly Lys Asn
 385 390 395 400
 Glu Lys Lys Ala Pro Ala Pro Pro Met Glu Pro Glu Val Pro Glu Met
 405 410 415
 Ser Gln Ser Lys Thr Glu His Met Lys Thr Pro Glu Glu Glu Leu Gln
 420 425 430
 Pro Glu Ser Ser Pro Ala Glu Thr Ser Ala Cys Lys Asp Pro Leu Lys
 435 440 445

Pro Leu Lys Ile Arg Pro Val Ser Gln Pro Phe Val Asn Pro Ala Val
 450 455 460
 Lys Asn Lys Ala Glu Glu Cys Glu Thr Trp Ile Asp Arg Phe Arg Lys
 465 470 475 480
 Leu Glu Asn Ala Leu Tyr Leu Cys Asp Leu Ser Asn Thr Gly Val Leu
 485 490 495
 Glu Lys Glu Arg Ala Arg Arg Leu Ile His Asn Tyr Asn Leu Ile Tyr
 500 505 510
 Asn Leu Ser Leu Ser Pro Gln Lys Ile Asp Gln Ala Leu Arg Arg Phe
 515 520 525
 Arg Ser Gly Glu Asn Met Leu Leu Glu Pro Ala Leu Arg Tyr Leu Lys
 530 535 540
 Glu Leu
 545

<210> 2610

<211> 347

<212> PRT

<213> Homo sapiens

<400> 2610

Met Pro Gly Lys Pro Lys His Leu Gly Val Pro Asn Gly Arg Met Val
 1 5 10 15
 Leu Ala Val Ser Asp Gly Glu Leu Ser Ser Thr Thr Gly Pro Gln Gly
 20 25 30
 Gln Gly Glu Gly Arg Gly Ser Ser Leu Ser Ile His Ser Leu Pro Ser
 35 40 45
 Gly Pro Ser Ser Pro Phe Leu Ala Phe Val Ser Ser Lys Ser Glu Ser
 50 55 60
 His Arg Lys Ser Leu Gly Ser Thr Glu Gly Glu Ser Glu Ser Arg Pro
 65 70 75 80
 Gly Lys Tyr Cys Cys Val Tyr Leu Pro Asp Gly Thr Ala Ser Leu Ala
 85 90 95
 Leu Ala Arg Pro Gly Leu Thr Ile Arg Asp Met Leu Ala Gly Ile Cys
 100 105 110

Glu Lys Arg Gly Leu Ser Leu Pro Asp Ile Lys Val Tyr Leu Val Gly
 115 120 125
 Asn Glu Gln Lys Ala Leu Val Leu Asp Gln Asp Cys Thr Val Leu Ala
 130 135 140
 Asp Gln Glu Val Arg Leu Glu Asn Arg Ile Thr Phe Glu Leu Glu Leu
 145 150 155 160
 Thr Ala Leu Glu Arg Val Val Arg Ile Ser Ala Lys Pro Thr Lys Arg
 165 170 175
 Leu Gln Glu Ala Leu Gln Pro Ile Leu Glu Lys Arg Gly Leu Ser Pro
 180 185 190
 Leu Glu Val Val Leu His Arg Pro Gly Glu Lys Gln Pro Leu Asp Leu
 195 200 205
 Gly Lys Leu Val Ser Ser Val Ala Ala Gln Arg Leu Val Leu Asp Thr
 210 215 220
 Leu Pro Gly Val Lys Ile Ser Lys Ala Arg Asp Lys Ser Pro Cys Arg
 225 230 235 240
 Ser Gln Gly Cys Pro Pro Arg Thr Gln Asp Lys Ala Thr His Pro Pro
 245 250 255
 Pro Ala Ser Pro Ser Ser Leu Val Lys Val Pro Ser Ser Ala Thr Gly
 260 265 270
 Lys Arg Gln Thr Cys Asp Ile Glu Gly Leu Val Glu Leu Leu Asn Arg
 275 280 285
 Val Gln Ser Ser Gly Ala His Asp Gln Arg Gly Leu Leu Arg Lys Glu
 290 295 300
 Asp Leu Val Leu Pro Glu Phe Leu Gln Leu Pro Ala Gln Gly Pro Ser
 305 310 315 320
 Ser Glu Glu Thr Pro Pro Gln Thr Lys Ser Ala Ala Gln Pro Ile Gly
 325 330 335
 Gly Ser Leu Asn Ser Thr Thr Asp Ser Ala Leu
 340 345

<210> 2611

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2611

Met Ile Ala Gly Ser Gly Thr Arg Ala His Ala Arg Ala Arg Leu Trp
 1 5 10 15
 Asp Pro Trp Leu Ile Asp Gly Pro Cys Ser Pro Arg Asn Leu Val Pro
 20 25 30
 Ala Ala Pro Ser Ala Pro Arg Thr Ala Val Arg Leu Ser Arg Leu Val
 35 40 45
 Pro Ala Gly Asn Ser Val Arg Cys Gly Ala Leu Asp Ala Ala Pro Gly
 50 55 60
 Gln Arg Ser Gly Pro Thr Val Ala Ala Gly Phe Pro Gln Gly Gly Ala
 65 70 75 80
 Arg Ala Arg Ala Thr Pro Arg Arg Leu Pro Gly His Arg Arg Pro Arg
 85 90 95
 Gly Ala Arg Gly Ala Gln Arg Gly Gly Ser Pro Asp Ser Ala His Gly
 100 105 110
 Ser Arg Pro Ala Glu Ala Gly Val Ser Ala Gln Cys Arg Glu Met
 115 120 125

<210> 2612

<211> 135

<212> PRT

<213> Homo sapiens

<400> 2612

Met Ala Ala Ser Gly Arg Gly Leu Cys Lys Ala Val Ala Ala Ser Pro
 1 5 10 15
 Phe Pro Ala Trp Arg Arg Asp Asn Thr Glu Ala Arg Gly Gly Leu Lys
 20 25 30
 Pro Glu Tyr Asp Ala Val Val Ile Gly Ala Gly Lys Val Val Lys Gln
 35 40 45
 Ala Gly Pro Glu Leu Arg Gly Gly Lys Thr Ala Leu Leu Arg Ala Trp
 50 55 60
 Trp Gly Gly Gly Gly Gly Ala Lys Pro His Cys Ser Leu Leu Trp His
 65 70 75 80

Asn Pro Ala Arg Ser Leu Tyr Ala Ser Arg Gly Cys Asn Gly Lys Pro
 85 90 95
 Phe His Leu Ala Gly Arg His Leu Gly Phe Arg Cys Trp Leu Cys Cys
 100 105 110
 Val Ala Trp Gly Lys Cys Leu Pro Ser Leu Gly Leu Asp Leu Pro Met
 115 120 125
 Glu Asn Asp Arg Lys Thr Arg
 130 135

<210> 2613

<211> 575

<212> PRT

<213> Homo sapiens

<400> 2613

Met Ala Thr Thr Ala Thr Cys Thr Arg Phe Thr Asp Asp Tyr Gln Leu
 1 5 10 15
 Phe Glu Glu Leu Gly Lys Cys Val Lys Lys Thr Ser Thr Gln Glu Tyr
 20 25 30
 Ala Ala Lys Ile Ile Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln
 35 40 45
 Lys Leu Glu Arg Glu Ala Arg Ile Cys Arg Leu Leu Lys His Pro Asn
 50 55 60
 Ile Val Arg Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu
 65 70 75 80
 Val Phe Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala
 85 90 95
 Arg Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile His Gln Ile
 100 105 110
 Leu Glu Ser Val Asn His Ile His Gln His Asp Ile Val His Arg Asp
 115 120 125
 Leu Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly Ala Ala
 130 135 140
 Val Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Glu Gln
 145 150 155 160

Gln Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu
 165 170 175
 Val Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Ile Trp Ala Cys
 180 185 190
 Gly Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp Asp
 195 200 205
 Glu Asp Gln His Lys Leu Tyr Gln Gln Ile Lys Ala Gly Ala Tyr Asp
 210 215 220
 Phe Pro Ser Pro Glu Trp Asp Thr Val Thr Pro Glu Ala Lys Asn Leu
 225 230 235 240
 Ile Asn Gln Met Leu Thr Ile Asn Pro Ala Lys Arg Ile Thr Ala Asp
 245 250 255
 Gln Ala Leu Lys His Pro Trp Val Cys Gln Arg Ser Thr Val Ala Ser
 260 265 270
 Met Met His Arg Gln Glu Thr Val Glu Cys Leu Arg Lys Phe Asn Ala
 275 280 285
 Arg Arg Lys Leu Lys Gly Ala Ile Leu Thr Thr Met Leu Val Ser Arg
 290 295 300
 Asn Phe Ser Ala Ala Lys Ser Leu Leu Asn Lys Lys Ser Asp Gly Gly
 305 310 315 320
 Val Lys Pro Gln Ser Asn Asn Lys Asn Ser Leu Val Ser Pro Ala Gln
 325 330 335
 Glu Pro Ala Pro Leu Gln Thr Ala Met Glu Pro Gln Thr Thr Val Val
 340 345 350
 His Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr Glu Ser Cys Asn Thr
 355 360 365
 Thr Thr Glu Asp Glu Asp Leu Lys Ala Ala Pro Leu Arg Thr Gly Asn
 370 375 380
 Gly Ser Pro Val Pro Glu Gly Arg Ser Ser Arg Asp Arg Thr Ala Pro
 385 390 395 400
 Ser Ala Gly Met Gln Pro Gln Pro Ser Leu Cys Ser Ser Ala Met Arg
 405 410 415
 Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu Ile Glu Ala Ile Asn
 420 425 430
 Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys Asp Pro Gly Leu Thr
 435 440 445

Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met Asp Phe
 450 455 460
 His Lys Phe Tyr Phe Glu Asn Arg Glu Trp Val Arg Ala Ala Asp Ile
 465 470 475 480
 Leu Leu Pro Ala Pro Leu Pro Leu Cys Leu Cys Leu Leu Leu Thr Phe
 485 490 495
 Ser Ser Gln Leu Pro Thr Phe Pro Leu Phe Asp Leu Arg Ala Ala Leu
 500 505 510
 Leu Leu Cys Met Leu Val Pro Leu Cys Pro Asp Gly Cys Arg Gln Ala
 515 520 525
 Pro Leu Lys Ala Leu Leu Leu Ser Ser Lys Cys His Ser Phe Cys Ser
 530 535 540
 Cys Phe Val Ala Val Pro Val Thr Thr Ile Lys Leu Thr Tyr Phe Leu
 545 550 555 560
 Pro Gly Ala Val Ala Tyr Ala Cys Asn Pro Asn Thr Leu Gly Gly
 565 570 575

<210> 2614

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2614

Met Glu Ala Gln Pro Gly Lys Lys Val Gly Lys Gly Asp Arg Val Phe
 1 5 10 15
 Gly Val Gly Leu Asn Val Met Leu Thr Phe Pro Glu Glu Ser Trp Pro
 20 25 30
 Val Pro Thr Gln Gly Thr Gly Arg Cys Leu Glu Ala Ala Ala Thr Gly
 35 40 45
 Gly Pro Arg Ser Ser Ala Gln Arg Pro Arg Pro Arg Ala Leu Ala Gly
 50 55 60
 Gly Glu Ser Ser Gly Cys Trp Ser Trp Gly Leu Arg Gly Ser Trp Glu
 65 70 75 80
 Leu Gln Ala Trp Trp Ala Trp Gly Trp Gly Gly Glu Gly Gly Gln Ser
 85 90 95

Ser His Arg Pro
100

<210> 2615

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2615

Met Cys Gly Trp Ala Ala Tyr Leu Met Arg Glu Pro Pro Pro Lys Pro
1 5 10 15
Glu Pro Ser Ser Leu Cys Gly Gln His Pro Gly Arg Pro Gly Gly Ala
20 25 30
Ala Ser Pro Ala Pro Thr Pro Ser Ala Trp Cys Trp Pro Val Ala Pro
35 40 45
Glu Pro Leu Thr Ser Pro Val Arg Gly Leu Gly Pro Ser Pro Gly Pro
50 55 60
Trp Trp Gln Leu Pro Val Ala Gln Ala Ala Cys Pro Ala Pro Arg Val
65 70 75 80
Glu Val Glu Leu Arg Gly Leu Leu Leu Gln Gly Ala Glu Gly Gln Arg
85 90 95
Pro Gly Phe Gly Tyr Gly Gly Arg Ala Ser Asp Tyr Lys Ser Ala His
100 105 110
Lys Gly Phe Lys Gly Val Asp Ala Gln Gly Thr Leu Ser Lys Ile Phe
115 120 125
Lys Leu Gly Gly Arg Asp Ser Arg Ser Gly Ser Pro Met Ala Arg Arg
130 135 140

<210> 2616

<211> 440

<212> PRT

<213> Homo sapiens

<400> 2616

Met Ala Val Arg Glu Lys Val Phe Asp Val Ile Ile Arg Cys Phe Lys
 1 5 10 15
 Arg His Gly Ala Glu Val Ile Asp Thr Pro Val Phe Glu Leu Lys Glu
 20 25 30
 Thr Leu Met Gly Lys Tyr Gly Glu Asp Ser Lys Leu Ile Tyr Asp Leu
 35 40 45
 Lys Asp Gln Gly Gly Glu Leu Leu Ser Leu Arg Tyr Asp Leu Thr Val
 50 55 60
 Pro Phe Ala Arg Tyr Leu Ala Met Asn Lys Leu Thr Asn Ile Lys Arg
 65 70 75 80
 Tyr His Ile Ala Lys Val Tyr Arg Arg Asp Asn Pro Ala Met Thr Arg
 85 90 95
 Gly Arg Tyr Arg Glu Phe Tyr Gln Cys Asp Phe Asp Ile Ala Gly Asn
 100 105 110
 Phe Asp Pro Met Ile Pro Asp Ala Glu Cys Leu Lys Ile Met Cys Glu
 115 120 125
 Ile Leu Ser Ser Leu Gln Ile Gly Asp Phe Leu Val Lys Val Asn Asp
 130 135 140
 Arg Arg Ile Leu Asp Gly Met Phe Ala Ile Cys Gly Val Ser Asp Ser
 145 150 155 160
 Lys Phe Arg Thr Ile Cys Ser Ser Val Asp Lys Leu Asp Lys Val Ser
 165 170 175
 Trp Glu Glu Val Lys Asn Glu Met Val Gly Glu Lys Gly Leu Ala Pro
 180 185 190
 Glu Val Ala Asp Arg Ile Gly Asp Tyr Val Gln Gln His Gly Gly Val
 195 200 205
 Ser Leu Val Glu Gln Leu Leu Gln Asp Pro Lys Leu Ser Gln Asn Lys
 210 215 220
 Gln Ala Leu Glu Gly Leu Gly Asp Leu Lys Leu Leu Phe Glu Tyr Leu
 225 230 235 240
 Thr Leu Phe Gly Ile Asp Asp Lys Ile Ser Phe Asp Leu Ser Leu Ala
 245 250 255
 Arg Gly Leu Asp Tyr Tyr Thr Gly Val Ile Tyr Glu Ala Val Leu Leu
 260 265 270
 Gln Thr Pro Ala Gln Ala Gly Glu Glu Pro Leu Gly Val Gly Ser Val

275	280	285
Ala Ala Gly Gly Arg Tyr Asp Gly Leu Val Gly Met Phe Asp Pro Lys		
290	295	300
Gly Arg Lys Val Pro Cys Val Gly Leu Ser Ile Gly Val Glu Arg Ile		
305	310	315
Phe Ser Ile Val Glu Gln Arg Leu Glu Ala Leu Glu Glu Lys Ile Arg		
325	330	335
Thr Thr Glu Thr Gln Val Leu Val Ala Ser Ala Gln Lys Lys Leu Leu		
340	345	350
Glu Glu Arg Leu Lys Leu Val Ser Glu Leu Trp Asp Ala Gly Ile Lys		
355	360	365
Ala Glu Leu Leu Tyr Lys Lys Asn Pro Lys Leu Leu Asn Gln Leu Gln		
370	375	380
Tyr Cys Glu Glu Ala Gly Ile Pro Leu Val Ala Ile Ile Gly Glu Gln		
385	390	395
Glu Leu Lys Asp Gly Val Ile Lys Leu Arg Ser Val Thr Ser Arg Glu		
405	410	415
Glu Val Asp Val Arg Arg Glu Asp Leu Val Glu Glu Ile Lys Arg Arg		
420	425	430
Thr Gly Gln Pro Leu Cys Ile Cys		
435	440	

<210> 2617

<211> 175

<212> PRT

<213> Homo sapiens

<400> 2617

Met Pro Gln Trp Leu Val Ala Ser Ile Ile Pro Gly Cys Val Cys Glu
1 5 10 15
Ser Val Ser Arg Gly Asp Ser His Val Ser Gln Arg Ala Glu Lys Glu
20 25 30
Thr Arg Ser Gln Cys Glu Cys Ala Leu Ser Asn Gln Leu Lys Ala Arg
35 40 45
Leu Gly Thr Asn Arg Gln Lys Lys Glu Asp Ser Leu Ser His Leu Ser

50 55 60
 Gly Ala Gly Cys Leu Phe Ser Leu Asp Ile Arg Leu Gln Gly Leu Trp
 65 70 75 80
 Leu Leu Asp Ser Arg Thr Cys Thr Asn Gly Leu Pro Gly Pro Ser Gly
 85 90 95
 Leu Gln Pro Pro Thr Lys Val Cys Ala Val Gly Leu Pro Asp Ser Glu
 100 105 110
 Ala Ser Gly Leu Gly Leu Arg His Ala Thr Gly Phe Ser Asp Ser Pro
 115 120 125
 Ala Cys Gly Trp Pro Ile Met Gly Leu Leu His Leu Cys Asn His Lys
 130 135 140
 Gly Gln Cys Pro Leu Ile Pro Phe Phe Ser Tyr Ile Leu Leu Val Leu
 145 150 155 160
 Ser Ala Trp Gly Thr Leu Thr Asn Thr Asp Met Glu His Leu Lys
 165 170 175

<210> 2618

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2618

Met Gly Glu Met His Arg His Ala Cys Glu Ala Trp Gly Pro Ser Leu
 1 5 10 15
 Pro Leu Pro Cys Pro Leu Ser Pro Pro Thr Pro Gly Gln Pro Gln Glu
 20 25 30
 Arg Gly Ser Val Ala Ser Leu Ala Gln Arg Arg Gly Ser Val Ala Thr
 35 40 45
 Trp Thr Pro Ala Ser Gly Thr Ala Glu Arg Pro Leu Arg Asn Ala Asp
 50 55 60
 Pro Pro Ser Arg Leu Lys His Thr Leu Arg Leu Pro Leu Leu Pro Leu
 65 70 75 80
 Glu Phe Gly Ser Ser Phe Leu Thr Gln Thr His Ser Cys Ser Gly Gly
 85 90 95
 Gln Gly Gly Arg Asp Thr His Ala Ala Ser Leu Leu Pro Pro Arg Ala

100 105 110
 Gly Asp Cys Pro
 115

<210> 2619

<211> 614

<212> PRT

<213> Homo sapiens

<400> 2619

Met Met Arg Gln Ala Thr Met Asp Phe Ser Thr Pro Ser Val Phe Asp
 1 5 10 15
 Gln Gln Arg Gly Asp Ser Ser Glu Glu Val Asp Leu Thr Met Val Tyr
 20 25 30
 Gln Ala Ala Ser Asn Gly Asp Val Asn Ala Leu Thr Ala Val Ile Arg
 35 40 45
 Glu Asp Pro Ser Ile Leu Glu Cys Cys Asp Ser Glu Gly Cys Thr Pro
 50 55 60
 Leu Met His Ala Val Ser Gly Arg Gln Ala Asp Thr Val Lys Leu Leu
 65 70 75 80
 Leu Lys Met Gly Ala Asn Ile Asn Met Gln Asp Ala Tyr Gly Arg Thr
 85 90 95
 Ser Leu Cys Leu Ala Thr Tyr Leu Gly Trp Leu Glu Gly Cys Val Ser
 100 105 110
 Leu Leu Arg Asn Gly Ala Lys His Asn Ile Pro Asp Lys Asn Gly Arg
 115 120 125
 Leu Pro Leu His Ala Ala Thr Ala Glu Pro Asp Met Arg Leu Leu Thr
 130 135 140
 Val Leu Leu Gln Gln Ser Asn Ile Ser Glu Ile Asn His Gln Asp Asn
 145 150 155 160
 Glu Gly Met Thr Pro Leu His Trp Ala Ala Phe His Asn Gln Pro Gln
 165 170 175
 His Thr Gln Met Leu Leu Lys Lys Gly Ala Asp Pro Thr Leu Val Asp
 180 185 190
 Lys Asp Phe Lys Thr Ala Leu His Trp Ala Val Gln Ser Gly Asn Arg

195	200	205
Ile Leu Cys Ser Ile Ile Leu Ser His His Gln Gly Pro Ser Ile Ile		
210	215	220
Asn Tyr Asp Asp Glu Ser Gly Lys Thr Cys Val His Ile Ala Ala Ala		
225	230	235
Ala Gly Phe Ser Asp Ile Ile His Glu Leu Ala Arg Val Pro Glu Cys		
245	250	255
Asn Leu Gln Ala Leu Asp Val Asp Asp Arg Thr Pro Leu His Trp Ala		
260	265	270
Ala Ala Ala Gly Lys Ala Glu Cys Val Gln Ser Leu Leu Glu Leu Gly		
275	280	285
Met Asp Ser Asn Leu Arg Asp Ile Asn Glu Ser Thr Pro Leu Ala Tyr		
290	295	300
Ala Leu Tyr Cys Gly His Thr Ala Cys Val Lys Leu Leu Ser Gln Glu		
305	310	315
Ser Arg Thr Glu Pro Thr Arg Pro Pro Pro Ser Gln Ser Ser Arg Pro		
325	330	335
Gln Lys Lys Glu Arg Arg Phe Asn Val Leu Asn Gln Ile Phe Cys Lys		
340	345	350
Asn Lys Lys Glu Glu Gln Arg Ala His Gln Lys Asp Pro Ser Arg Asp		
355	360	365
Arg Tyr Arg Glu Glu Asp Thr Ser Glu Val Asn Asp Ile Ile Thr Thr		
370	375	380
Phe Asp Ser Ile Val Gly Thr Asn Cys Gln Glu Gln Pro Gly Asp Gln		
385	390	395
Val Ala Met Val Glu Phe Lys Lys Lys Thr Ser Asp Asn Ser Lys Tyr		
405	410	415
Leu Leu Pro Glu Lys Lys Pro Leu Ala Arg Lys Gly Leu Pro Pro Ile		
420	425	430
Arg Thr Gln Ser Leu Pro Pro Ile Thr Leu Gly Asn Asn Phe Leu Thr		
435	440	445
Ala Ser His Arg Ala Thr Ser His Ala Gly Leu Ser Ser Ala Pro His		
450	455	460
His Met Ala Gln Arg Ser Gln Lys Ser Arg Ser Glu Gln Asp Leu Leu		
465	470	475
Asn Asn Arg Thr Gly Cys Gln Met Leu Leu Asp Asn Pro Trp Lys Ser		

	485		490		495										
Asp	Ser	Asn	Gln	Val	Phe	Ser	Tyr	Lys	Val	Trp	Thr	Val	Ser	Ser	Ser
	500							505					510		
Asp	Lys	Leu	Leu	Asp	Arg	Leu	Leu	Ser	Val	Arg	Pro	Gly	His	Gln	Glu
	515						520					525			
Val	Ser	Val	Pro	Pro	His	Leu	Arg	His	Leu	His	Asn	Pro	Ser	Ser	Gly
	530					535					540				
Gln	Asn	Phe	Gln	His	Leu	Ser	Pro	Asn	Arg	His	Lys	Ile	Arg	Asp	Leu
545					550					555					560
Pro	Phe	Thr	Arg	Asn	Asn	Leu	Ala	Pro	Leu	Pro	Asp	Gln	Lys	Phe	Leu
				565					570				575		
Ser	Gly	Glu	Pro	Leu	Arg	Thr	Asn	Arg	Val	Leu	Pro	Ala	Ile	Pro	Ser
	580							585				590			
Gln	Arg	Arg	His	Ser	Thr	Ala	Ala	Glu	Glu	Ser	Glu	His	Ser	Ala	Asn
	595						600					605			
Pro	Thr	Ser	Asp	Glu	Asn										
	610														

<210> 2620

<211> 126

<212> PRT

<213> Homo sapiens

<400> 2620

Met	Arg	Tyr	His	Leu	Thr	Pro	Val	Arg	Met	Ala	Ile	Ile	Lys	Lys	Ser
1				5					10				15		
Gly	Asn	Asn	Arg	Cys	Trp	Arg	Gly	Cys	Gly	Glu	Ile	Gly	Thr	Leu	Leu
			20					25				30			
His	Cys	Trp	Trp	Asp	Cys	Lys	Leu	Val	Gln	Pro	Leu	Trp	Lys	Ser	Val
		35					40					45			
Trp	Arg	Phe	Leu	Arg	Asp	Leu	Glu	Leu	Glu	Ile	Pro	Phe	Asp	Pro	Ala
	50					55					60				
Ile	Pro	Leu	Leu	Gly	Ile	Tyr	Pro	Asn	Glu	Tyr	Lys	Ser	Cys	Cys	Tyr
65					70					75				80	
Lys	Asp	Thr	Cys	Thr	Arg	Met	Phe	Ile	Val	Ala	Leu	Phe	Thr	Ile	Ala

	85	90	95
Lys Thr Trp Asn Gln Pro Arg Cys Pro Ser Val Val Asp Leu Ile Lys			
	100	105	110
Lys Ile Trp Tyr Ile Tyr Ile Met Gly Tyr Tyr Thr Ala Ile			
	115	120	125

<210> 2621

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2621

Met Leu Trp Tyr Gly Leu Leu Gly Tyr Leu Arg Leu Pro Cys Lys Gln			
1	5	10	15
Leu Trp Pro Asp Trp Ile Pro Gly Arg Gly Gln Gln Thr Lys Glu Cys			
	20	25	30
Ser Val Gly Ser Ala Ser Ser Asp Leu Gln Asp His Pro Ala Glu Ile			
	35	40	45
Arg Ser Asn Ser Ser Pro Arg Ala Lys Val Ser Tyr Gly Arg Lys Leu			
	50	55	60
Ser Leu Trp Lys Trp Pro Ser Met Ala Thr Leu Tyr Tyr Arg Cys Ser			
	65	70	75
Cys Thr Lys Pro Ser Gly Tyr His Met Ser Trp Val Ala Ala Pro Pro			
	85	90	95
Leu Cys Leu Ser Ser Gly Cys Cys Ile Ser Glu Thr Cys Arg Pro Ala			
	100	105	110
Ile Thr Gln Cys Ser Pro Thr Arg Met Glu Asp Leu Cys Phe Trp Pro			
	115	120	125

Asn

<210> 2622

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2622

Met Lys Ile Pro Ile Val Gly Gln His Pro Glu Ala Glu Ala Trp Ala
 1 5 10 15
 Val Cys Phe Gln Glu Glu Glu Gln Glu Trp Pro Gln Pro Cys Thr Pro
 20 25 30
 Arg Cys Thr Pro Gly Ala Ala Trp Pro Gln Leu Trp Ser Ala Gly Leu
 35 40 45
 Leu Pro Gly Ala Pro Pro Pro Val Leu Gly Cys Gly Cys Gly Cys Leu
 50 55 60
 Trp Phe Val Phe Leu Gly Asn Leu Gly Gln Val Gly Val Arg Ala Gly
 65 70 75 80
 Leu Ala Leu Asp Ile Cys Thr Ser His Ser Ser Leu Trp Ala Arg Ala
 85 90 95
 His Pro Leu Trp Ala Gly Asp Gln Gly Asp Gln Val Pro Arg Val Pro
 100 105 110
 Ser Ser Ala Pro Gly Ala Phe Trp Val
 115 120

<210> 2623

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2623

Met Val Trp Asp Val Gly Thr Gly Ala Ala Met Leu Thr Leu Gly Pro
 1 5 10 15
 Glu Val His Pro Asp Thr Ile Tyr Ser Val Asp Trp Ser Arg Asp Gly
 20 25 30
 Gly Leu Ile Cys Thr Ser Cys Arg Asp Lys Arg Val Arg Ile Ile Glu
 35 40 45
 Pro Arg Lys Gly Thr Val Val Ala Glu Lys Asp Arg Pro His Glu Gly
 50 55 60
 Thr Arg Pro Val Arg Ala Val Phe Val Ser Glu Gly Lys Ile Leu Thr

65 70 75 80
 Thr Gly Phe Ser Arg Met Ser Glu Arg Gln Val Ala Leu Trp Asp Thr
 85 90 95
 Val Ser Ala Gly Ala Gly Ser Arg Gly Pro Pro Gly Trp Glu Pro Arg
 100 105 110
 Leu Glu Val Ser Ser Leu Leu Cys His Ser Pro Gly Arg Met Ala Met
 115 120 125
 Gly Leu Ser Leu Pro Arg Arg Glu Met Val Val Pro Thr Gly Trp Ser
 130 135 140
 Gly Gly Pro Ser Gln Val Thr Ala Gln Gly Arg Pro Pro Ser Gln Gly
 145 150 155 160
 Leu Gly Cys Tyr Leu Ser Pro Val Ser Thr Glu Ala Pro Gly Gly Ala
 165 170 175
 Ala Val Pro Ala Gly Ala Gly His Gln Gln Arg Cys Pro Ala Ala Leu
 180 185 190
 Leu

<210> 2624

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2624

Met Leu His Cys Phe Leu Trp Pro Ser Ser Cys Leu Gly Pro Asp Val
 1 5 10 15
 His Pro Gly Trp Trp Leu Gln Val Gly His Pro Val Leu Leu Cys Ile
 20 25 30
 Ser Ile Gln Ser Pro Ile Ser Thr Gln Asn Ser Ser Val Pro Gln Arg
 35 40 45
 Ser Ser Leu Glu Thr Gly Arg Leu Thr Ser Ser Pro Thr Ala Glu Pro
 50 55 60
 Pro Glu Ala Thr Trp Gln Asn Ala Ile Gln Asp Cys Thr Trp His Ser
 65 70 75 80

Ala Ala Val Ser Gln Trp Asp Pro Ser Ile Gln Asn Gly Ser Ser Val
 85 90 95
 Phe Leu Leu Leu Ser
 100

<210> 2625

<211> 243

<212> PRT

<213> Homo sapiens

<400> 2625

Met Arg Ser Ala Ala Phe Thr Ile Pro Ser Leu Lys Gln Arg Ser Pro
 1 5 10 15
 Arg Cys Ser Thr Gly Arg Ala Glu Leu Gly Lys Gly Glu Pro Ser Pro
 20 25 30
 Cys Thr Gly Arg Pro Glu Gln Arg Gly Arg Arg Lys Ser Ser Leu Ala
 35 40 45
 Pro Pro Ala Pro Thr Pro Asp Ala Gly Pro Gln Thr Ser Lys Asp Leu
 50 55 60
 Glu Pro Pro Pro His Gly Cys Gln Glu Ala Asp Arg Gly Gly Ser Trp

 65 70 75 80
 Gly Ala Thr Thr Ser Arg Pro Phe Arg Gln Asn Leu Ser Asp Leu Gly
 85 90 95
 Arg His Ser Val Leu Pro Leu Lys Arg Asn Leu Cys Pro Gly Gly Ser
 100 105 110
 Ser Leu Gly Ala Pro Pro Leu Arg Thr Pro Gln Arg Arg Val Thr Leu
 115 120 125
 Ala Ala Gln Arg Trp Leu Ser Arg Pro Gln Arg Arg Ala Val Gly Leu
 130 135 140
 Gly Glu Leu Asp Gln Gly Ala Gln Leu Ala Ala Leu Gly Leu Arg Trp
 145 150 155 160
 Gly Val Asp Ser Leu Gly Gly Cys Pro Arg Ala Ser Gln Pro Ala Gly
 165 170 175
 His Ser Gly Leu His His Thr Leu Thr Cys Leu Arg Arg His Leu Ala

180 185 190
 Leu Gln Ala Gly Ala Ser Gly His Ala Gly Gln Leu Pro Gln Arg Ala
 195 200 205
 Ser Ala Ala Trp Glu Gln Gln Gly Gln Ser Tyr Thr Ala Leu His Leu
 210 215 220
 Ala Ala Met Tyr Leu Gly Asp Gly Glu Ala Ala Ser Gly Asn Ile Gly
 225 230 235 240
 Arg Arg Cys

<210> 2626

<211> 342

<212> PRT

<213> Homo sapiens

<400> 2626

Met Leu Gln Asp Pro Arg Ser Gln Leu Arg Gln Phe Ser His Ile Lys
 1 5 10 15
 Met Asp Ile Thr Leu Thr Lys Pro Asn Phe Ala Lys His Ile Val Trp
 20 25 30
 Ala Pro Glu Asp Leu Leu Pro Val Pro Leu Pro Lys Pro Asp Pro Val
 35 40 45
 Ser Ser Ile Asn Leu Pro Leu Pro Pro Leu Ile Ala Asp Gln Arg Leu
 50 55 60
 Asn Arg Leu Trp Asn Thr Lys Ser Asp Leu His Gln Asn Thr Val Ser
 65 70 75 80
 Ile Asp Pro Lys Leu Ala Ala Lys Ala Lys Ile Asn Thr Thr Asn Arg
 85 90 95
 Glu Gly Tyr Leu Glu Gln Phe Gly Asp Ser His Gly Ser Gly Ala Lys
 100 105 110
 Leu Gly Asp Pro Arg Leu Gln Lys Asn Phe Asp Pro Arg Leu His Arg
 115 120 125
 Leu Pro Asn Thr Glu Ser His Gln Val Val Met Lys Asp Ser His Ala
 130 135 140

Ser Lys Gly Ala Pro His Leu Pro Arg Ser Asn Pro Gly Ser Ser Gln
 145 150 155 160
 Pro Ser Gly Ala Gly Thr Ser Asn Ser Gly Ser Gly Ala Leu Pro Pro
 165 170 175
 Tyr Ala Pro Lys Leu Ser Ser Ser Ala Gly Leu Pro Leu Gly Thr Ser
 180 185 190
 Thr Ser Val Leu Ser Gly Ile Ser Leu Tyr Asp Pro Arg Asp His Gly
 195 200 205
 Ser Ser Ser Thr Ser Glu Leu Ala Thr Ala Ser Ser Gly Glu Asn Ser
 210 215 220
 Lys Asn Gln Lys Lys Ser Gly Gly Leu Lys Ser Ser Asp Lys Thr Glu
 225 230 235 240
 Pro Ser Pro Gly Glu Ala Ile Leu Pro Gln Lys Pro Ser Pro Asn Val
 245 250 255
 Gly Val Thr Leu Glu Gly Pro Ala Asp Pro Gln Ala Asp Val Pro Arg
 260 265 270
 Ser Ser Gly Lys Val Gln Val Pro Ala Val His Ser Leu Pro Val Gln
 275 280 285
 Ala Leu Thr Gly Leu Ile Arg Pro Gln Tyr Ser Asp Pro Arg Gln Ala
 290 295 300
 Arg Gln Pro Gly Gln Gly Ser Pro Thr Pro Asp Asn Asp Pro Gly Arg
 305 310 315 320
 Glu Thr Asp Asp Lys Ser Leu Lys Glu Val Phe Lys Thr Phe Asp Pro
 325 330 335
 Thr Ala Ser Pro Phe Cys
 340

<210> 2627

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2627

Met Met Asn Pro Arg Ala Lys Arg Asp Phe Tyr Leu Ala Ala Pro Asp
 1 5 10 15

<213> Homo sapiens

Met	Arg	Ser	Lys	Lys	Pro	Lys	Lys	His	Pro	Lys	Val	Ala	Val	Lys	Ala
1				5					10					15	
Lys	Pro	Ser	Pro	Arg	Leu	Thr	Ile	Phe	Asp	Glu	Glu	Val	Asp	Pro	Asp
			20					25					30		
Glu	Gly	Leu	Phe	Gly	Pro	Gly	Arg	Lys	Leu	Ser	Pro	Gln	Asp	Pro	Ser
		35					40					45			
Glu	Asp	Val	Ser	Ser	Met	Asp	Pro	Leu	Lys	Leu	Phe	Asp	Asp	Pro	Asp
	50					55				60					
Leu	Gly	Gly	Ala	Ile	Pro	Leu	Gly	Asp	Ser	Leu	Leu	Leu	Pro	Ala	Ala
65				70					75					80	

Cys Glu Ser Gly Gly Pro Thr Pro Ser Leu Ser His Arg Asp Ala Ser
 85 90 95
 Lys Glu Leu Phe Arg Tyr His Leu Ser Pro Ala Ala Leu Gly Gln Leu
 100 105 110

<210> 2629

<211> 207

<212> PRT

<213> Homo sapiens

<400> 2629

Met Ala Lys Arg Ser Lys Met Leu Ser Leu Asn Asn Tyr Ser Val Pro
 1 5 10 15
 Gln Ser Thr Arg Glu Glu Lys Arg Glu Asn Gly Leu Glu Ala Arg Ser
 20 25 30
 Pro Ala Ile Asn Leu Met Gly Phe Asn Val Glu Glu Met Cys Glu Ala
 35 40 45
 His Ala Trp Ile Gln Arg Ile Leu Ser Leu Gln Asn His His Ile Ile
 50 55 60
 Glu Asn Asn His Ile Leu Tyr Leu Gly Arg Lys Glu His Asp Ile Leu
 65 70 75 80
 Ser Gln Leu Gln Lys Thr Ser Ser Val Ser Ile Thr Glu Ile Ile Ser
 85 90 95
 Pro Gly Arg Thr Glu Leu Glu Ile Glu Gly Ala Arg Ala Asp Leu Ile
 100 105 110
 Glu Val Val Met Asn Ile Glu Asp Met Leu Cys Lys Val Gln Glu Glu
 115 120 125
 Met Ala Arg Lys Lys Glu Arg Gly Leu Trp Arg Ser Leu Gly Gln Trp
 130 135 140
 Thr Ile Gln Gln Gln Lys Thr Gln Asp Glu Met Lys Glu Asn Ile Ile
 145 150 155 160
 Phe Leu Lys Cys Pro Val Pro Pro Thr Gln Glu Leu Leu Asp Gln Lys
 165 170 175
 Lys Gln Phe Glu Lys Cys Gly Leu Gln Val Leu Lys Val Tyr Leu Thr
 180 185 190

Lys Gly Lys Ile Trp Leu Ile Leu Leu Leu Ile Asn Leu Phe Leu
 195 200 205

<210> 2630

<211> 452

<212> PRT

<213> Homo sapiens

<400> 2630

Met Ser Asp Pro His Ser Ser Pro Leu Leu Pro Glu Pro Leu Ser Ser
 1 5 10 15
 Arg Tyr Lys Leu Tyr Glu Ala Glu Phe Thr Ser Pro Ser Trp Pro Ser
 20 25 30
 Thr Ser Pro Asp Thr His Pro Ala Leu Pro Leu Leu Glu Met Pro Glu
 35 40 45
 Glu Lys Asp Leu Arg Ser Ser Asn Glu Asp Ser His Ile Val Lys Ile
 50 55 60
 Glu Lys Leu Asn Glu Arg Ser Lys Arg Lys Asp Asp Gly Val Ala His
 65 70 75 80
 Arg Asp Ser Ala Gly Gln Arg Cys Ile Cys Leu Ser Lys Ala Val Gly
 85 90 95
 Tyr Leu Thr Gly Asp Met Lys Glu Tyr Arg Ile Trp Leu Lys Asp Lys
 100 105 110
 His Leu Ala Leu Gln Phe Ile Asp Trp Val Leu Arg Gly Thr Ala Gln
 115 120 125
 Val Met Phe Val Asn Asn Pro Leu Ser Gly Leu Ile Ile Phe Ile Gly
 130 135 140
 Leu Leu Ile Gln Asn Pro Trp Trp Thr Ile Thr Gly Gly Leu Gly Thr
 145 150 155 160
 Val Val Ser Thr Leu Thr Ala Leu Ala Leu Gly Gln Asp Arg Ser Ala
 165 170 175
 Ile Ala Ser Gly Leu His Gly Tyr Asn Gly Met Leu Val Gly Leu Leu
 180 185 190
 Met Ala Val Phe Ser Glu Lys Leu Asp Tyr Tyr Trp Trp Leu Leu Phe

195	200	205
Pro Val Thr Phe Thr Ala Met Ser Cys Pro Val Leu Ser Ser Ala Leu		
210	215	220
Asn Ser Ile Phe Ser Lys Trp Asp Leu Pro Val Phe Thr Leu Pro Phe		
225	230	235
Asn Ile Ala Val Thr Leu Tyr Leu Ala Ala Thr Gly His Tyr Asn Leu		
245	250	255
Phe Phe Pro Thr Thr Leu Val Glu Pro Val Ser Ser Val Pro Asn Ile		
260	265	270
Thr Trp Thr Glu Met Glu Met Pro Leu Leu Leu Gln Ala Ile Pro Val		
275	280	285
Gly Val Gly Gln Val Tyr Gly Cys Asp Asn Pro Trp Thr Gly Gly Val		
290	295	300
Phe Leu Val Ala Leu Phe Ile Ser Ser Pro Leu Ile Cys Leu His Ala		
305	310	315
Ala Ile Gly Ser Ile Val Gly Leu Leu Ala Ala Leu Ser Val Ala Thr		
325	330	335
Pro Phe Glu Thr Ile Tyr Thr Gly Leu Trp Ser Tyr Asn Cys Val Leu		
340	345	350
Ser Cys Ile Ala Ile Gly Gly Met Phe Tyr Ala Leu Thr Trp Gln Thr		
355	360	365
His Leu Leu Ala Leu Ile Cys Ala Leu Phe Cys Ala Tyr Met Glu Ala		
370	375	380
Ala Ile Ser Asn Ile Met Ser Val Val Gly Val Pro Pro Gly Thr Trp		
385	390	395
Ala Phe Cys Leu Ala Thr Ile Ile Phe Leu Leu Leu Thr Thr Asn Asn		
405	410	415
Pro Ala Ile Phe Arg Leu Pro Leu Ser Lys Val Thr Tyr Pro Glu Ala		
420	425	430
Asn Arg Ile Tyr Tyr Leu Thr Val Lys Ser Gly Glu Glu Glu Lys Ala		
435	440	445
Pro Ser Gly Glu		
450		

<210> 2631

<211> 312

<212> PRT

<213> Homo sapiens

<400> 2631

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Met Ser His Cys Ala Gln Pro Lys Thr Val Ile Phe Phe Lys Val Leu
  1             5             10            15
Leu Thr Val Gln Arg Lys Leu Phe Tyr Cys Leu Gln Glu Asn Pro Glu
      20             25            30
Val Trp Phe Ile Arg Pro Val Ser Pro Ser Leu Leu Lys Ile Leu Ala
      35             40            45
Leu Glu Ala Thr Tyr Leu Leu Pro Leu Arg Leu Ala Leu Leu Asp Glu
      50             55            60
Met Met Ser Asp Leu Thr Thr Leu Val Asp Gly Tyr Leu Asn Thr Tyr
      65             70            75            80
Arg Glu Gly Ser Ala Asp Arg Leu Gly Gly Thr Glu Pro Thr Cys Met
      85             90            95
Glu Leu Pro Glu Glu Leu Leu Gln Leu Lys Asp Phe Gln Lys Gln Arg
      100            105            110
Arg Glu Lys Ala Ala Arg Glu Tyr Arg Val Asn Ala Gln Gly Leu Leu
      115            120            125
Ile Arg Thr Val Leu Gln Pro Lys Lys Leu Val Thr Glu Thr Ala Gly
      130            135            140
Lys Glu Glu Lys Val Lys Gly Phe Leu Phe Gly Lys Asn Phe Arg Ile
      145            150            155            160
Asp Lys Ala Pro Ser Phe Thr Ser Gln Asp Phe His Gly Asp Val Asn
      165            170            175
Leu Leu Lys Glu Glu Ser Leu Asn Lys Gln Ala Thr Asn Pro Gln His
      180            185            190
Leu Pro Pro Thr Glu Glu Gly Glu Thr Ser Glu Asp Ser Ser Asn Lys
      195            200            205
Leu Ile Cys Thr Lys Ser Lys Gly Ser Glu Asp Gln Arg Ile Thr Gln
      210            215            220
Lys Glu His Phe Met Thr Pro Lys His Glu Phe Gln Ala Ser Leu Ser
      225            230            235            240
Leu Lys Glu Glu Thr Glu Gln Leu Leu Met Val Glu Asn Lys Glu Asp

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245 250 255
 Leu Lys Cys Thr Lys Gln Ala Val Ser Met Ser Ser Phe Pro Gln Glu
 260 265 270
 Thr Arg Val Ser Pro Ser Asp Thr Phe Tyr Pro Ile Arg Lys Ala Val
 275 280 285
 Val Ser Thr Leu Pro Pro Cys Pro Ala Leu Glu Lys Ile Asp Ser Trp
 290 295 300
 Ile Ser Pro Phe Leu Asn Leu Pro
 305 310

<210> 2632

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2632

Met Ala Ala Leu Ser Ser Arg Cys Pro Arg Ser Ala Ala Gly Pro Ala
 1 5 10 15
 Tyr Leu Gln Glu Ala Ala Arg Ser Ala His Trp Ala Ser Pro Pro Leu
 20 25 30
 Val Pro Leu Arg Thr Phe Gln Ser Ser Leu Phe Ser Ser Gly Ser Ser
 35 40 45
 His Ser Arg Glu Glu Glu Glu Glu Gly Val Ser Leu Leu Arg Thr Ala
 50 55 60
 Leu Val Gly Gln Gly Pro Val Pro Leu Phe Leu Gly Ser Leu Phe Cys
 65 70 75 80
 Ala Gly Cys Arg Gln Gly Pro Ser Val Trp Ser Cys Gly Glu Pro Val
 85 90 95
 Pro Arg Arg Ile Trp Val Thr Ala Ser Val Thr Pro Ser Pro Arg Gln
 100 105 110
 Ala Leu His Pro Cys Ser Asp Ser Leu Asp Ile Leu Lys Ala Leu His
 115 120 125
 Leu Leu Pro Ala Ala Phe Ser Pro Phe Ile Trp Val Gln Val Phe Ala
 130 135 140
 Glu Pro Ser Asn Lys Glu Ser Arg Gly Glu Asn Asp Gly Gly Glu Glu

145 150 155 160
 Arg Glu Ser Ala Asn Ile Tyr
 165

<210> 2633

<211> 604

<212> PRT

<213> Homo sapiens

<400> 2633

Met Phe Ser Gln Ser Glu Leu Arg Thr Ile Glu Gln Ser Leu Leu Ala
 1 5 10 15
 Thr Arg Val Gly Ser Ile Ala Glu Leu Ser Asp Leu Val Ser Arg Ala
 20 25 30
 Met His His Leu Gln Pro Leu Asn Ala Lys His His Gly Asn Gly Thr
 35 40 45
 Pro Leu His His Lys Gln Gly Ala Leu Tyr Trp Glu Pro Glu Ala Leu
 50 55 60
 Tyr Thr Leu Cys Tyr Phe Met His Cys Pro Gln Met Glu Trp Glu Asn
 65 70 75 80
 Pro Asn Val Glu Pro Ser Lys Val Asn Leu Gln Val Glu Arg Pro Phe
 85 90 95
 Leu Val Leu Pro Pro Leu Met Glu Trp Ile Arg Val Ala Val Ala His
 100 105 110
 Ala Gly His Arg Arg Ser Phe Ser Met Asp Ser Asp Asp Val Arg Gln
 115 120 125
 Ala Ala Arg Leu Leu Leu Pro Gly Val Asp Cys Glu Pro Arg Gln Leu
 130 135 140
 Arg Ala Asp Asp Cys Phe Cys Ala Ser Arg Lys Leu Asp Ala Val Ala
 145 150 155 160
 Ile Glu Ala Lys Phe Lys Gln Asp Leu Gly Phe Arg Met Leu Asn Cys
 165 170 175
 Gly Arg Thr Asp Leu Val Lys Gln Ala Val Ser Leu Leu Gly Pro Asp
 180 185 190
 Gly Ile Asn Thr Met Ser Glu Gln Gly Met Thr Pro Leu Met Tyr Ala

195	200	205
Cys Val Arg Gly Asp Glu Ala Met Val Gln Met Leu Leu Asp Ala Gly		
210	215	220
Ala Asp Leu Asn Val Glu Val Val Ser Thr Pro His Lys Tyr Pro Ser		
225	230	235
Val His Pro Glu Thr Arg His Trp Thr Ala Leu Thr Phe Ala Val Leu		
245	250	255
His Gly His Ile Pro Val Val Gln Leu Leu Leu Asp Ala Gly Ala Lys		
260	265	270
Val Glu Gly Ser Val Glu His Gly Glu Glu Asn Tyr Ser Glu Thr Pro		
275	280	285
Leu Gln Leu Ala Ala Ala Val Gly Asn Phe Glu Leu Val Ser Leu Leu		
290	295	300
Leu Glu Arg Gly Ala Asp Pro Leu Ile Gly Thr Met Tyr Arg Asn Gly		
305	310	315
Ile Ser Thr Thr Pro Gln Gly Asp Met Asn Ser Phe Ser Gln Ala Ala		
325	330	335
Ala His Gly His Arg Asn Val Phe Arg Lys Leu Leu Ala Gln Pro Glu		
340	345	350
Lys Glu Lys Ser Asp Ile Leu Ser Leu Glu Glu Ile Leu Ala Glu Gly		
355	360	365
Thr Asp Leu Ala Glu Thr Ala Pro Pro Pro Leu Cys Ala Ser Arg Asn		
370	375	380
Ser Lys Ala Lys Leu Arg Ala Leu Arg Glu Ala Met Tyr His Ser Ala		
385	390	395
Glu His Gly Tyr Val Asp Val Thr Ile Asp Ile Arg Ser Ile Gly Val		
405	410	415
Pro Trp Thr Leu His Thr Trp Leu Glu Ser Leu Arg Ile Ala Phe Gln		
420	425	430
Gln His Arg Arg Pro Leu Ile Gln Cys Leu Leu Lys Glu Phe Lys Thr		
435	440	445
Ile Gln Glu Glu Glu Tyr Thr Glu Glu Leu Val Thr Gln Gly Leu Pro		
450	455	460
Leu Met Phe Glu Ile Leu Lys Ala Ser Lys Asn Glu Val Ile Ser Gln		
465	470	475
Gln Leu Cys Val Ile Phe Thr His Cys Tyr Gly Pro Tyr Pro Ile Pro		

	485		490		495										
Lys	Leu	Thr	Glu	Ile	Lys	Arg	Lys	Gln	Thr	Ser	Arg	Leu	Asp	Pro	His
	500						505					510			
Phe	Leu	Asn	Asn	Lys	Glu	Met	Ser	Asp	Val	Thr	Phe	Leu	Val	Glu	Gly
	515						520					525			
Arg	Pro	Phe	Tyr	Ala	His	Lys	Val	Leu	Leu	Phe	Thr	Ala	Ser	Pro	Arg
	530						535					540			
Phe	Lys	Ala	Leu	Leu	Ser	Ser	Lys	Pro	Thr	Asn	Asp	Gly	Thr	Cys	Ile
545					550					555				560	
Glu	Ile	Gly	Tyr	Val	Lys	Tyr	Ser	Ile	Phe	Gln	Leu	Val	Met	Gln	Tyr
			565						570					575	
Leu	Tyr	Tyr	Gly	Gly	Pro	Glu	Ser	Leu	Leu	Ile	Lys	Asn	Asn	Glu	Ile
			580						585					590	
Met	Glu	Val	Arg	Asp	Pro	Leu	Trp	Cys	Trp	Leu	Ser				
	595						600								

<210> 2634

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2634

Met	Glu	Arg	Pro	His	Leu	Tyr	Lys	Lys	Asn	His	Thr	Arg	Lys	Ile	Ser
1				5					10					15	
Trp	Leu	Trp	Trp	Cys	Met	Pro	Val	Val	Pro	Ala	Thr	Gln	Glu	Ala	Ile
			20						25				30		
Ser	Ser	Gln	Pro	Lys	Gly	Arg	Gly	Gly	Ile	Gln	Val	Gly	Leu	Val	Gln
		35						40					45		
Glu	Leu	Val	Cys	Ala	Tyr	Ser	Ser	Gly	Tyr	Gly	Asp	Glu	Arg	Pro	Tyr
	50					55						60			
Trp	His	Leu	Cys	Leu	Ser	Ser	Leu	Ser	Ala	Ser	Glu	Cys	Arg	Ala	Arg
65					70					75				80	
Gly	Leu	Asn	Ser	Gln	Ser	Arg	Thr	Arg	Ser	Leu	Asn	Val	Ser	Gln	Thr
			85							90				95	
Gln	Leu	Cys	Ala	Gln	Leu	His	Ser	Asn	Val	Lys	Pro	Ser	Arg	Ala	Val

100 105 110
 Ser Ala Ser Cys Val Cys Arg Leu Leu Pro Val Leu Gln Gln Val His
 115 120 125
 Gln Cys Glu Glu Gly Glu His Leu Gly Asp Tyr His Gly Ala Gly Met
 130 135 140
 Leu Arg Ala Leu
 145

<210> 2635

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2635

Met Cys Leu Leu Cys Pro Phe Pro Ile Gly Lys Ala Ile Ser Val Arg
 1 5 10 15
 Leu Gln Tyr Phe Lys His Glu Thr Lys Gln Ser Ile Cys Leu Gly Asn
 20 25 30
 Gln Lys Ser Pro Leu Val Cys Pro Phe Phe Gly Glu Gln Gly Leu Asp
 35 40 45
 Ser Ser Ser Ser Leu Asp Leu Pro Ser Ser Pro His Pro Ala Pro Thr
 50 55 60
 Leu Cys Pro Cys Val Gln Pro Pro Arg Gly Pro Val Ser Val Ser Val
 65 70 75 80
 Pro Val Ser Val Met Gly Ser Arg Leu Ala Pro Leu Leu Ser Ala Cys
 85 90 95
 Leu Phe Val Ser Val Ile Leu Gly Arg Met Val Ile Leu Lys Asn Pro
 100 105 110
 Gly Val Leu Gly Gln Arg Gln Ala Gly Pro Ser Pro Gly Ala Pro Gly
 115 120 125
 Leu Pro Ser Pro Ser Val Arg Ala Pro Leu Gly His Lys Cys Ser Glu
 130 135 140
 Arg Ser Pro Ser Ala Thr
 145 150

<210> 2636

<211> 454

<212> PRT

<213> Homo sapiens

<400> 2636

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Met Arg Thr Val Pro Gln Phe Thr Thr Phe Ala Ala Thr Arg Phe Lys
  1              5              10              15
Pro Ser Ser Thr Ser Ser Thr Arg Thr Ser Ser Pro Cys Ser Pro Val
      20              25              30
Ser Ala Lys Glu Gly Pro Thr Leu Ser Val Pro Met Val Gln Gly Glu
      35              40              45
Cys Leu Leu Lys Tyr Gln Leu Arg Pro Arg Arg Glu Trp Gln Arg Asp
      50              55              60
Ala Ile Ile Thr Cys Asn Pro Glu Glu Phe Ile Val Glu Ala Leu Gln
      65              70              75              80
Leu Pro Asn Phe Gln Gln Ser Val Gln Glu Tyr Arg Arg Ser Ala Gln
      85              90              95
Asp Gly Pro Ala Pro Ala Glu Lys Arg Ser Gln Tyr Pro Glu Ile Ile
      100             105             110
Phe Leu Gly Thr Gly Ser Ala Ile Pro Met Lys Ile Arg Asn Val Ser
      115             120             125
Ala Thr Leu Val Asn Ile Ser Pro Asp Thr Ser Leu Leu Leu Asp Cys
      130             135             140
Gly Glu Gly Thr Phe Gly Gln Leu Cys Arg His Tyr Gly Asp Gln Val
      145             150             155             160
Asp Arg Val Leu Gly Thr Leu Ala Ala Val Phe Val Ser His Leu His
      165             170             175
Ala Asp His His Thr Gly Leu Pro Ser Ile Leu Leu Gln Arg Glu Arg
      180             185             190
Ala Leu Ala Ser Leu Gly Lys Pro Leu His Pro Leu Leu Val Val Ala
      195             200             205
Pro Asn Gln Leu Lys Ala Trp Leu Gln Gln Tyr His Asn Gln Cys Gln
      210             215             ~             220
Glu Val Leu His His Ile Ser Met Ile Pro Ala Lys Cys Leu Gln Glu

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225 230 235 240
 Gly Ala Glu Ile Ser Ser Pro Ala Val Glu Arg Leu Ile Ser Ser Leu
 245 250 255
 Leu Arg Thr Cys Asp Leu Glu Glu Phe Gln Thr Cys Leu Val Arg His
 260 265 270
 Cys Lys His Ala Phe Gly Cys Ala Leu Val His Thr Ser Gly Trp Lys
 275 280 285
 Val Val Tyr Ser Gly Asp Thr Met Pro Cys Glu Ala Leu Val Arg Met
 290 295 300
 Gly Lys Asp Ala Thr Leu Leu Ile His Glu Ala Thr Leu Glu Asp Gly
 305 310 315 320
 Leu Glu Glu Glu Ala Val Glu Lys Thr His Ser Thr Thr Ser Gln Ala
 325 330 335
 Ile Ser Val Gly Met Arg Met Asn Ala Glu Phe Ile Met Leu Asn His
 340 345 350
 Phe Ser Gln Arg Tyr Ala Lys Val Pro Leu Phe Ser Pro Asn Phe Ser
 355 360 365
 Glu Lys Val Gly Val Ala Phe Asp His Met Lys Val Cys Phe Gly Asp
 370 375 380
 Phe Pro Thr Met Pro Lys Leu Ile Pro Pro Leu Lys Ala Leu Phe Ala
 385 390 395 400
 Gly Asp Ile Glu Glu Met Glu Glu Arg Arg Glu Lys Arg Glu Leu Arg
 405 410 415
 Gln Val Arg Ala Ala Leu Leu Ser Arg Glu Leu Ala Gly Gly Leu Glu
 420 425 430
 Asp Gly Glu Pro Gln Gln Lys Arg Ala His Thr Glu Glu Pro Gln Ala
 435 440 445
 Lys Lys Val Arg Ala Gln
 450

<210> 2637

<211> 378

<212> PRT

<213> Homo sapiens

<400> 2637

Met Gly Asn Pro Ser Val Pro Arg Gly Gly Phe Thr Gln Tyr Cys Arg
 1 5 10 15
 Gly Leu Leu Pro Trp Gly Phe Gln Asp Ala Pro Phe Tyr Leu Leu Val
 20 25 30
 Leu Gly Phe Asp Lys Leu Pro Leu Trp Gly Thr Ile Leu Ile Ser Val
 35 40 45
 Gly Cys Ala Val Phe Cys Ala Leu Ile Val Trp Phe Phe Val Cys Pro
 50 55 60
 Arg Met Lys Arg Lys Ile Glu Arg Glu Ile Lys Cys Ser Pro Ser Glu
 65 70 75 80
 Ser Pro Leu Met Glu Lys Lys Asn Ser Leu Lys Glu Asp His Glu Glu
 85 90 95
 Thr Lys Leu Ser Val Gly Asp Ile Glu Asn Lys His Pro Val Ser Glu
 100 105 110
 Val Gly Pro Ala Thr Val Pro Leu Gln Ala Val Val Glu Glu Arg Thr
 115 120 125
 Val Ser Phe Lys Leu Gly Asp Leu Glu Glu Ala Pro Glu Arg Glu Arg
 130 135 140
 Leu Pro Ser Val Asp Leu Lys Glu Glu Thr Ser Ile Asp Ser Thr Val
 145 150 155 160
 Asn Gly Ala Val Gln Leu Pro Asn Gly Asn Leu Val Gln Phe Ser Gln
 165 170 175
 Ala Val Ser Asn Gln Ile Asn Ser Ser Gly His Tyr Gln Tyr His Thr
 180 185 190
 Val His Lys Asp Ser Gly Leu Tyr Lys Glu Leu Leu His Lys Leu His
 195 200 205
 Leu Ala Lys Val Gly Asp Cys Met Gly Asp Ser Gly Asp Lys Pro Leu
 210 215 220
 Arg Arg Asn Asn Ser Tyr Thr Ser Tyr Thr Met Ala Ile Cys Gly Met
 225 230 235 240
 Pro Leu Asp Ser Phe Arg Ala Lys Glu Gly Glu Gln Lys Gly Glu Glu
 245 250 255
 Met Glu Lys Leu Thr Trp Pro Asn Ala Asp Ser Lys Lys Arg Ile Arg

260	265	270
Met Asp Ser Tyr Thr Ser Tyr Cys Asn Ala Val Ser Asp Leu His Ser		
275	280	285
Ala Ser Glu Ile Asp Met Ser Val Lys Ala Glu Met Gly Leu Gly Asp		
290	295	300
Arg Lys Gly Ser Asn Gly Ser Leu Glu Glu Trp Tyr Asp Gln Asp Lys		
305	310	315
Pro Glu Val Ser Leu Leu Phe Gln Phe Leu Gln Ile Leu Thr Ala Cys		
325	330	335
Phe Gly Ser Phe Ala His Gly Gly Asn Asp Val Ser Asn Ala Ile Gly		
340	345	350
Pro Leu Val Ala Leu Tyr Leu Val Tyr Asp Thr Gly Asp Val Ser Ser		
355	360	365
Lys Val Ala Thr Pro Ile Trp Leu Leu Cys		
370	375	

<210> 2638

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2638

Met Glu Thr Ile Leu Ala Ser Phe Cys Ile Phe Ser Gly Asp Gly Ser		
1	5	10
Ser Pro Cys Trp Pro Gly Cys Ser Gln Thr Pro Asp Leu Lys Ser Ala		
20	25	30
Cys Leu Arg Leu Pro Arg Cys Trp Asp Tyr Arg His Glu Pro Gly Leu		
35	40	45
Asp Asp Leu Phe Asn Val Leu Leu Asn Leu Val Cys Trp Ser Cys Phe		
50	55	60
Val Thr Gln Ala Gly Val Gln Trp His Asn Leu Gly Leu Leu Gln Ala		
65	70	75
Leu Asn Ser Trp Ala Gln Val Ile Leu Leu Ser Gln Ser Phe Lys Val		
85	90	95
Leu Val Leu Gln Val		

100

<210> 2639

<211> 383

<212> PRT

<213> Homo sapiens

<400> 2639

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Met Val Ser Ser Gly Cys Arg Met Arg Ser Leu Trp Phe Ile Ile Val
  1             5             10             15
Ile Ser Phe Leu Pro Asn Thr Glu Gly Phe Ser Arg Ala Ala Leu Pro
      20             25             30
Phe Gly Leu Val Arg Arg Glu Leu Ser Cys Glu Gly Tyr Ser Ile Asp
      35             40             45
Leu Arg Cys Pro Gly Ser Asp Val Ile Met Ile Glu Ser Ala Asn Tyr
      50             55             60
Gly Arg Thr Asp Asp Lys Ile Cys Asp Ala Asp Pro Phe Gln Met Glu
      65             70             75             80
Asn Thr Asp Cys Tyr Leu Pro Asp Ala Phe Lys Ile Met Thr Gln Arg
      85             90             95
Cys Asn Asn Arg Thr Gln Cys Ile Val Val Thr Gly Ser Asp Val Phe
      100            105            110
Pro Asp Pro Cys Pro Gly Thr Tyr Lys Tyr Leu Glu Val Gln Tyr Glu
      115            120            125
Cys Val Pro Tyr Arg His Ser Leu Asn Asn Ala Arg Asp Thr Ser Ala
      130            135            140
Met Asp Thr Leu Pro Leu Asn Gly Asn Phe Asn Asn Ser Tyr Ser Leu
      145            150            155            160
His Lys Gly Asp Tyr Asn Asp Ser Val Gln Val Val Asp Cys Gly Leu
      165            170            175
Ser Leu Asn Asp Thr Ala Phe Glu Lys Met Ile Ile Ser Glu Leu Val
      180            185            190
His Asn Asn Leu Arg Gly Ser Ser Lys Thr His Asn Leu Glu Leu Thr
      195            200            205
Leu Pro Val Lys Pro Val Ile Gly Gly Ser Ser Ser Glu Asp Asp Ala

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210	215	220	
Ile Val Ala Asp Ala Ser Ser Leu Met His Ser Asp Asn Pro Gly Leu			
225	230	235	240
Glu Leu His His Lys Glu Leu Glu Ala Pro Leu Ile Pro Gln Arg Thr			
	245	250	255
His Ser Leu Leu Tyr Gln Pro Gln Lys Lys Val Lys Ser Glu Gly Thr			
	260	265	270
Asp Ser Tyr Val Ser Gln Leu Thr Ala Glu Ala Glu Asp His Leu Gln			
	275	280	285
Ser Pro Asn Arg Asp Ser Leu Tyr Thr Ser Met Pro Asn Leu Arg Asp			
290	295	300	
Ser Pro Tyr Pro Glu Ser Ser Pro Asp Met Glu Glu Asp Leu Ser Pro			
305	310	315	320
Ser Arg Arg Ser Glu Asn Glu Asp Ile Tyr Tyr Lys Ser Met Pro Asn			
	325	330	335
Leu Gly Ala Gly His Gln Leu Gln Met Cys Tyr Gln Ile Ser Arg Gly			
	340	345	350
Asn Ser Asp Gly Tyr Ile Ile Pro Ile Asn Lys Glu Gly Cys Ile Pro			
	355	360	365
Glu Gly Asp Val Arg Glu Gly Gln Met Gln Leu Val Thr Ser Leu			
370	375	380	

<210> 2640

<211> 162

<212> PRT

<213> Homo sapiens

<400> 2640

Met Glu Tyr Glu Ser Gln Lys Glu Lys Glu Val Ser Val Ser Asp Val		
1	5	10
Asn Ser Ile Thr Ala Gln Arg Ile Asn Ser Ala Asn Phe Leu Lys Lys		
	20	30
Val Arg Arg Leu Ile Met Lys Arg Ile Val Lys Ile Ser Lys Cys Asn		
	35	45
Leu Ser Asp Ile Val Asn Asp Tyr Glu Glu Ile Val Ser Thr Ser Gln		

50 55 60
 Leu Thr Asp Ala Val Cys Lys Phe Val Glu Pro Arg Arg Lys Leu Lys
 65 70 75 80
 Pro Gln Arg Lys Glu Arg Lys Lys Val Thr Ala Gln Ala Ile Ser Asp
 85 90 95
 Gly Asp Ile Lys Ile Leu Val Arg Ile Val Arg Ala Tyr Asn Ile Pro
 100 105 110
 Thr Arg Lys Thr Thr Ile Asn Gly Phe Cys Cys Gln Leu Pro Tyr Ser
 115 120 125
 Met Pro Leu Thr Leu Ser Val Leu Glu Ala Glu Arg Trp Arg Lys Cys
 130 135 140
 Pro Arg Lys Ala Ala Lys Gln Met Trp Asn Asp Pro Trp Ile Cys Leu
 145 150 155 160
 Leu Val

<210> 2641

<211> 231

<212> PRT

<213> Homo sapiens

<400> 2641

Met Glu Met Leu Pro Leu His Arg Tyr Ser His Cys Thr Asp Thr Pro
 1 5 10 15
 Thr Ala Gln Arg Gly Ala His His Met Gly Met Leu Pro Leu His Arg
 20 25 30
 Tyr Ser His Cys Thr Asp Thr Pro Thr Ala Gln Arg Gly Thr His Asp
 35 40 45
 Met Gly Met Leu Pro Leu His Arg Cys Ser His Gly Thr Glu Arg His
 50 55 60
 Pro Ser Tyr Gly Asp Val Pro Thr Ala Gln Ile Leu Pro Leu His Arg
 65 70 75 80
 Tyr Ser His Arg Thr Glu Arg His Pro Ser Tyr Gly Asp Ala Pro Thr
 85 90 95
 Ala Gln Met Leu Pro Arg His Arg Glu Ala Pro Ile Ile Trp Gly Cys

100	105	110
Ser His Cys Thr Asp Thr Pro Ile Ala Gln Ile Leu Pro Pro His Arg		
115	120	125
Glu Ala Pro Ile Ile Trp Gly Cys Ser His Cys Thr Asp Ala Pro Thr		
130	135	140
Ala Gln Arg Gly Thr His His Met Gly Met Ile Pro Leu His Arg Tyr		
145	150	155
Ser His Cys Thr Asp Ala Pro Thr Thr Gln Arg Gly Ala His His Met		
165	170	175
Gly Met Leu Pro Leu His Arg Tyr Ser His Cys Thr Asp Ala Pro Thr		
180	185	190
Ala Gln Arg Gly Thr His Asp Met Gly Met Leu Pro Leu His Arg Cys		
195	200	205
Ser His His Thr Glu Arg Arg Pro Ser Tyr Gly Asp Asp Pro Thr Ala		
210	215	220
Gln Met Leu Pro Leu His Arg		
225	230	

<210> 2642

<211> 154

<212> PRT

<213> Homo sapiens

<400> 2642

Met Ser Ser Asp Phe Gln Gly Thr Gly Ala Leu Ser Gly Met Ala Lys
1 5 10 15
Glu Asp Thr Ser Ile Gln Leu Gly Ala Thr Pro Gly Ser Gln Thr Leu
20 25 30
His Cys Leu Val Pro Arg Ser Ser Ser Arg Ser Glu Val Asp Cys Ser
35 40 45
Leu Ile His Ser Pro Ser Leu Arg Ala Gly Arg Trp Asp Trp Gln His
50 55 60
Ser Lys Asp Ile Ala Pro Trp Gly Pro Pro Cys Cys Ile Phe Gln Leu
65 70 75 80
Arg Gln Val Tyr Ser Pro Pro Ala Ser Val Arg Arg Gly Pro Glu Gln

85 90 95
 Gln Ala Trp Gln His Pro Leu Leu Leu Pro Glu Glu Val Leu Ser Ser
 100 105 110
 Pro Gly Cys Gly His Thr Val Arg Leu Tyr Arg Pro Val Trp Ser Ser
 115 120 125
 Cys Arg Gly Tyr Asp Leu Asp Lys Thr Glu Gln Thr Gln Glu Ala Leu
 130 135 140
 Gln Cys Arg Ala Tyr Ser Ser Ser Ser Trp
 145 150

<210> 2643

<211> 347

<212> PRT

<213> Homo sapiens

<400> 2643

Met Val Ser His Pro Ser Leu Ser Met Cys Leu Ser His Tyr Leu Ser
 1 5 10 15
 Pro Ser Leu Thr Gly Cys Val Ser Pro Tyr Pro Leu Leu Asn Ser Ser
 20 25 30
 Leu Cys His Leu Ser Ser Tyr Thr Leu Leu His Ser Pro Pro Pro Gly
 35 40 45
 Leu Pro Asp Ser Val Pro His Thr Ser Pro Pro Pro Tyr Asn Ala Pro
 50 55 60
 Gln Pro Pro Ala Glu Pro Pro Ala Pro Pro Pro Gln Ala Ala Pro Ser
 65 70 75 80
 Ser His His His His His His His Tyr His Gln Ser Gly Thr Ala Thr
 85 90 95
 Leu Pro Arg Leu Gly Ala Gly Gly Leu Ala Ser Ser Ala Ala Thr Ala
 100 105 110
 Gln Arg Gly Pro Ser Ser Ser Ala Thr Leu Pro Arg Pro Pro His His
 115 120 125
 Ala Pro Pro Gly Pro Ala Ala Gly Ala Pro Pro Pro Gly Cys Ala Thr
 130 135 140
 Leu Pro Arg Met Pro Pro Asp Pro Tyr Leu Gln Glu Thr Arg Phe Glu

145 150 155 160
 Gly Pro Leu Pro Pro Pro Pro Pro Ala Ala Ala Ala Pro Pro Pro Pro

 165 170 175
 Ala Pro Ala Gln Thr Ala Gln Ala Pro Gly Phe Val Val Pro Thr His

 180 185 190
 Ala Gly Thr Val Gly Thr Leu Pro Leu Gly Gly Tyr Val Ala Pro Gly

 195 200 205
 Tyr Pro Leu Gln Leu Gln Pro Cys Thr Ala Tyr Val Pro Val Tyr Pro

 210 215 220
 Val Gly Thr Pro Tyr Ala Gly Gly Thr Pro Gly Gly Thr Gly Val Thr

225 230 235 240
 Ser Thr Leu Pro Pro Pro Pro Gln Gly Pro Gly Leu Ala Leu Leu Glu

 245 250 255
 Pro Arg Arg Pro Pro His Asp Tyr Met Pro Ile Ala Val Leu Thr Thr

 260 265 270
 Ile Cys Cys Phe Trp Pro Thr Gly Ile Ile Ala Ile Phe Lys Ala Val

 275 280 285
 Gln Val Arg Thr Ala Leu Ala Arg Gly Asp Met Val Ser Ala Glu Ile

 290 295 300
 Ala Ser Arg Glu Ala Arg Asn Phe Ser Phe Ile Ser Leu Ala Val Gly

305 310 315 320
 Ile Ala Ala Met Val Leu Cys Thr Ile Leu Thr Val Val Ile Ile Ile

 325 330 335
 Ala Ala Gln His His Glu Asn Tyr Trp Asp Pro

 340 345

<210> 2644

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2644

Met Arg Pro Pro Leu Ser Leu Ser Ser Ala Gly Ser Ala Thr His Leu

1

5

10

15

<211> 198

<213> Homo sapiens

Met	Ala	Met	Ala	Arg	Gly	Ser	Ile	Glu	Leu	Gly	Val	Glu	Thr	Cys	Gly
1					5				10					15	
Gly	His	Ser	Ser	Ser	Lys	Ala	Glu	Leu	Thr	Gln	Ala	Val	Pro	Ala	Pro
				20				25					30		
Ala	Arg	Pro	Arg	Pro	Leu	Ser	Pro	Gly	Leu	Pro	Thr	Gly	Gln	His	Pro
				35				40					45		
Ser	Ser	Cys	Val	Pro	Pro	Pro	Thr	Ser	Leu	Ala	His	Leu	Ser	Val	Val
	50						55				60				
Pro	Gln	Glu	Gly	Pro	Gln	Cys	Gly	Trp	Arg	Val	Pro	Ser	Ala	Gly	Arg
65					70					75					80

Gly Gly Gln Cys Arg His Gln Ala Ser Trp Gly Glu Arg Gly Pro Trp
 85 90 95
 Val Gly Gly Pro Leu Ala Ala Pro Pro Ser Leu Thr Glu Ala Arg Arg
 100 105 110
 Gly Ser Arg Trp Arg Thr Cys Thr Trp Tyr Pro Ser Gln Arg Asp Gly
 115 120 125
 Leu Leu Ser Gly Gly Ala Glu Gly Phe Ser Arg Ala Gly Ser Cys Gly
 130 135 140
 Val Trp Gly Ser Arg Trp Pro Pro His Pro Lys Thr Thr Leu Gln Gly
 145 150 155 160
 Gln Arg Cys Gln Cys Leu Ala Ile Leu Gln Leu Arg Val Ala Glu Leu
 165 170 175
 Gly Gly Gly Arg Thr Ser Trp Gly Glu Gly Arg Val Ser Thr Glu His
 180 185 190
 Pro Gln Arg Gly Pro Arg
 195

<210> 2646

<211> 492

<212> PRT

<213> Homo sapiens

<400> 2646

Met Lys Ala Met Pro Trp Asn Trp Thr Cys Leu Leu Ser His Leu Leu
 1 5 10 15
 Met Val Gly Met Gly Ser Ser Thr Leu Leu Thr Arg Gln Pro Ala Pro
 20 25 30
 Leu Ser Gln Lys Gln Arg Ser Phe Val Thr Phe Arg Gly Glu Pro Ala
 35 40 45
 Glu Gly Phe Asn His Leu Val Val Asp Glu Arg Thr Gly His Ile Tyr
 50 55 60
 Leu Gly Ala Val Asn Arg Ile Tyr Lys Leu Ser Ser Asp Leu Lys Val
 65 70 75 80
 Leu Val Thr His Glu Thr Gly Pro Asp Glu Asp Asn Pro Lys Cys Tyr
 85 90 95

Pro Pro Arg Ile Val Gln Thr Cys Asn Glu Pro Leu Thr Thr Thr Asn
 100 105 110
 Asn Val Asn Lys Met Leu Leu Ile Asp Tyr Lys Glu Asn Arg Leu Ile
 115 120 125
 Ala Cys Gly Ser Leu Tyr Gln Gly Ile Cys Lys Leu Leu Arg Leu Glu
 130 135 140
 Asp Leu Phe Lys Leu Gly Glu Pro Tyr His Lys Lys Glu His Tyr Leu
 145 150 155 160
 Ser Gly Val Asn Glu Ser Gly Ser Val Phe Gly Val Ile Val Ser Tyr
 165 170 175
 Ser Asn Leu Asp Asp Lys Leu Phe Ile Ala Thr Ala Val Asp Gly Lys
 180 185 190
 Pro Glu Tyr Phe Pro Thr Ile Ser Ser Arg Lys Leu Thr Lys Asn Ser
 195 200 205
 Glu Ala Asp Gly Met Phe Ala Tyr Val Phe His Asp Glu Phe Val Ala
 210 215 220
 Ser Met Ile Lys Ile Pro Ser Asp Thr Phe Thr Ile Ile Pro Asp Phe
 225 230 235 240
 Asp Ile Tyr Tyr Val Tyr Gly Phe Ser Ser Gly Asn Phe Val Tyr Phe
 245 250 255
 Leu Thr Leu Gln Pro Glu Met Val Ser Pro Pro Gly Ser Thr Thr Lys
 260 265 270
 Glu Gln Val Tyr Thr Ser Lys Leu Val Arg Leu Cys Lys Glu Asp Thr
 275 280 285
 Ala Phe Asn Ser Tyr Val Glu Val Pro Ile Gly Cys Glu Arg Ser Gly
 290 295 300
 Val Glu Tyr Arg Leu Leu Gln Ala Ala Tyr Leu Ser Lys Ala Gly Ala
 305 310 315 320
 Val Leu Gly Arg Thr Leu Gly Val His Pro Asp Asp Asp Leu Leu Phe
 325 330 335
 Thr Val Phe Ser Lys Gly Gln Lys Arg Lys Met Lys Ser Leu Asp Glu
 340 345 350
 Ser Ala Leu Cys Ile Phe Ile Leu Lys Gln Ile Asn Asp Arg Ile Lys
 355 360 365
 Glu Arg Leu Gln Ser Cys Tyr Arg Gly Glu Gly Thr Leu Asp Leu Ala
 370 375 380

Trp Leu Lys Val Lys Asp Ile Pro Cys Ser Ser Ala Leu Leu Thr Ile
 385 390 395 400
 Asp Asp Asn Phe Cys Gly Leu Asp Met Asn Ala Pro Leu Gly Val Ser
 405 410 415
 Asp Met Val Arg Gly Ile Pro Val Phe Thr Glu Asp Arg Asp Arg Met
 420 425 430
 Thr Ser Val Ile Ala Tyr Val Tyr Lys Asn His Ser Leu Ala Phe Val
 435 440 445
 Gly Thr Lys Ser Gly Lys Leu Lys Lys Val Pro Gly Thr Ser Leu Cys
 450 455 460
 Pro Thr Leu Glu Leu Gln Thr Gly Pro Arg Ser His Arg Ala Thr Val
 465 470 475 480
 Thr Leu Glu Leu Leu Phe Ser Ser Cys Ser Ser Asn
 485 490

<210> 2647

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2647

Met Val His Pro Asn Val Pro Ala Ser Leu Phe Gly Phe Arg Ser Glu
 1 5 10 15
 Asn Asp Leu Ser Leu Ser Arg Tyr Thr Ile Val Arg Asn Ala Leu Pro
 20 25 30
 Asn Ala Ser Leu Leu Ser Asp Gln Arg Ile Pro Arg Leu Gly Ile Gln
 35 40 45
 Ile Asn Glu Asn Ser His Met Lys Gly Lys Ser Ile Ala Ile Ser Gly
 50 55 60
 Glu Asp Leu Ser Pro Gly Leu Phe Pro Gly Ile Ala Thr Trp Val Gly
 65 70 75 80
 Ala His His Ser Gly Ala Gly Val Gly Arg Gln Glu Glu Glu Ala Glu
 85 90 95
 Ile Leu Pro Ile Lys Ala Asn
 100

<210> 2648

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2648

```

Met His Gln Cys Val Gln Phe Val His Cys Met Asn Thr Gln Gln Arg
 1             5             10             15
Arg Gln Met Gly Leu Lys Phe Ser Pro Lys Pro Arg Ala Pro Ala Glu
      20             25             30
Ser Ala Gln Lys Gly His Leu Phe Leu Ile Arg Leu Ser Lys Gly Lys
      35             40             45
Leu Phe Phe Leu Ile Leu Thr Arg Asn Gln Ser Cys Lys Asn Leu Gly
      50             55             60
Ser Cys Asn His Phe Lys Ile Asp Phe Ile Phe Cys Phe Leu Glu Thr
      65             70             75             80
Lys Ala Arg Ser Ile Ala Gln Ala Gly Val Trp Leu Ala Leu Gln Thr
      85             90             95
Ala Met Ile Leu
      100

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<210> 2649

<211> 237

<212> PRT

<213> Homo sapiens

<400> 2649

```

Met Asn Ile Phe Asp Arg Lys Ile Asn Phe Asp Ala Leu Leu Lys Phe
 1             5             10             15
Ser His Ile Thr Pro Ser Thr Gln Gln His Leu Lys Lys Val Tyr Ala
      20             25             30
Ser Phe Ala Leu Cys Met Phe Val Ala Ala Ala Gly Ala Tyr Val His
      35             40             45

```

Met Val Thr His Phe Ile Gln Ala Gly Leu Leu Ser Ala Leu Gly Ser
 50 55 60
 Leu Ile Leu Met Ile Trp Leu Met Ala Thr Pro His Ser His Val Thr
 65 70 75 80
 Glu Gln Lys Arg Leu Gly Leu Leu Ala Gly Phe Ala Phe Leu Thr Gly
 85 90 95
 Val Gly Leu Gly Pro Ala Leu Glu Phe Cys Ile Ala Val Asn Pro Ser
 100 105 110
 Ile Leu Pro Thr Ala Phe Met Gly Thr Ala Met Ile Phe Thr Cys Phe
 115 120 125
 Thr Leu Ser Ala Leu Tyr Ala Arg Arg Arg Ser Tyr Leu Phe Leu Gly
 130 135 140
 Gly Ile Leu Met Ser Ala Leu Ser Leu Leu Leu Ser Ser Leu Gly
 145 150 155 160
 Asn Val Phe Phe Gly Ser Ile Trp Leu Phe Gln Ala Asn Leu Tyr Val
 165 170 175
 Gly Leu Val Val Met Cys Gly Phe Val Leu Phe Asp Thr Gln Leu Ile
 180 185 190
 Ile Glu Lys Ala Glu His Gly Asp Gln Asp Tyr Ile Trp His Cys Ile
 195 200 205
 Asp Leu Phe Leu Asp Phe Ile Thr Val Phe Arg Lys Leu Met Met Ile
 210 215 220
 Leu Ala Met Asn Glu Lys Asp Lys Lys Lys Glu Lys Lys
 225 230 235

<210> 2650

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2650

Met Lys Arg Met Asn Gln Asn Phe Pro His Gly Gly Ala Met Asp Thr
 1 5 10 15
 His Phe Ala Asn Met Arg Ser Leu Ile Gln Ile Leu Asp Ser Glu Leu

20 25 30
 Phe Glu Leu Met His Gln Asn Gly Asp Tyr Thr His Phe Tyr Phe Cys
 35 40 45
 Tyr Arg Trp Phe Leu Leu Asp Phe Lys Arg Glu Leu Val Tyr Asp Asp
 50 55 60
 Val Phe Leu Val Trp Glu Thr Ile Trp Ala Ala Lys His Val Ser Ser
 65 70 75 80
 Ala His Tyr Val Leu Phe Ile Ala Leu Ala Leu Val Glu Val Tyr Arg
 85 90 95
 Asp Ile Ile Leu Glu Asn Asn Met Asp Phe Thr Asp Ile Ile Lys Phe
 100 105 110
 Phe Asn Glu Met Ala Glu Arg His Asn Thr Lys Gln Val Leu Lys Leu
 115 120 125
 Ala Arg Asp Leu Val Tyr Lys Val Gln Thr Leu Ile Glu Asn Lys
 130 135 140

<210> 2651

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2651

Met Glu Thr His Lys Glu Leu Lys Pro Leu Leu Ser Pro Ser Ser Glu
 1 5 10 15
 Thr Thr Val Thr Val Glu Leu Pro Glu Ala Asp Arg Ala Gly Ala Gly
 20 25 30
 Thr Gly Ala Gln Ala Gly Gln Leu Met Gly Phe Phe Lys Gly Ile Asp
 35 40 45
 Gln Asp Ile Glu Arg Ala Val Gln Ser Glu Ile Phe Leu His Glu Ser
 50 55 60
 Tyr Cys Met Asp Thr Ser His Gln Pro Leu Leu Pro Ala Pro Pro Lys
 65 70 75 80
 Thr Pro Met Asp Gly Ala Asp Cys Gly Ile Gln Trp Trp Asn Ala Val
 85 90 95
 Phe Ile Met Leu Leu Ile Gly Ile Val Leu Pro Val Phe Tyr Leu Val

100 105 110
 Tyr Phe Lys Ile Gln Ala Ser Gly Glu Thr Pro Asn Ser Leu Asn Thr
 115 120 125
 Thr Val Ile Pro Asn Gly Ser Met Ala Met Gly Thr Val Pro Gly Gln
 130 135 140
 Ala Pro Arg Leu Ala Val Ala Val Pro Ala Val Thr Ser Ala Asp Ser
 145 150 155 160
 Gln Phe Ser Gln Thr Thr Gln Ala Gly Ser
 165 170

<210> 2652

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2652

Met Ser His Ile Gln Leu Gln Val Val His Gly Pro Gly Ser Leu Trp
 1 5 10 15
 Gln Glu Gly Ala Ser Arg Ala Val Phe Leu Ser Val Thr Leu Ser Ser
 20 25 30
 Cys Ser Lys His Met Tyr Leu Lys Gln Leu Tyr Thr Lys Leu Ile Lys
 35 40 45
 Ile Lys Asp Gly Gln Pro Val Pro Gly Asn Val Glu Glu Glu Leu Val
 50 55 60
 Ile Glu Phe Pro Trp Trp Asp Lys Arg Ile Thr His Leu Ala Phe Asn
 65 70 75 80
 Glu Arg Phe Pro Glu Leu His Pro Phe Pro Ser Leu Thr Ala Gly Ser
 85 90 95
 Cys Arg Pro Cys Gly Ala His Ser Gly Arg Gly Lys Met Arg Pro Glu
 100 105 110
 Ala Arg Arg Tyr Ala Leu Gly Ala Met Arg Thr Gln Pro Ser Gln Val
 115 120 125
 Asn Ala Ala Ser Ala Thr Ala Arg Ala Leu Ile Ile Ile
 130 135 140

<210> 2653

<211> 342

<212> PRT

<213> Homo sapiens

<400> 2653

```

Met Leu Gly Lys Gln Gln Gly Glu Glu Asp Val Arg Arg Leu Phe Gln
  1             5             10             15
Pro Phe Gly His Ile Glu Glu Cys Thr Val Leu Arg Ser Pro Asp Gly
          20             25             30
Thr Ser Lys Gly Cys Ala Phe Val Lys Phe Gly Ser Gln Gly Glu Ala
      35             40             45
Gln Ala Ala Ile Arg Gly Leu His Gly Ser Arg Thr Met Ala Gly Ala
      50             55             60
Ser Ser Ser Leu Val Val Lys Leu Ala Asp Thr Asp Arg Glu Arg Ala
      65             70             75             80
Leu Arg Arg Met Gln Gln Met Ala Gly His Leu Gly Ala Phe His Pro
          85             90             95
Ala Pro Leu Pro Leu Gly Ala Cys Gly Ala Tyr Thr Thr Ala Ile Leu
          100            105            110
Gln His Gln Ala Ala Leu Leu Ala Ala Ala Gln Gly Pro Gly Leu Gly
          115            120            125
Pro Val Ala Ala Val Ala Ala Gln Met Gln His Val Ala Ala Phe Ser
          130            135            140
Leu Val Ala Ala Pro Leu Leu Pro Ala Ala Ala Ala Asn Ser Pro Pro
          145            150            155            160
Gly Ser Gly Pro Gly Thr Leu Pro Gly Leu Pro Ala Pro Ile Gly Val
          165            170            175
Asn Gly Phe Gly Pro Leu Thr Pro Gln Thr Asn Gly Gln Pro Gly Ser
          180            185            190
Asp Thr Leu Tyr Asn Asn Gly Leu Ser Pro Tyr Pro Ala Gln Ser Pro
          195            200            205
Gly Val Ala Asp Pro Leu Gln Gln Ala Tyr Ala Gly Met His His Tyr
          210            215            220
Ala Ala Ala Tyr Pro Ser Ala Tyr Ala Pro Val Ser Thr Ala Phe Pro

```

225 230 235 240
 Gln Gln Pro Ser Ala Leu Pro Gln Gln Gln Arg Glu Gly Pro Glu Gly
 245 250 255
 Cys Asn Leu Phe Ile Tyr His Leu Pro Gln Glu Phe Gly Asp Ala Glu
 260 265 270
 Leu Ile Gln Thr Phe Leu Pro Phe Gly Ala Val Val Ser Ala Lys Val
 275 280 285
 Phe Val Asp Arg Ala Thr Asn Gln Ser Lys Cys Phe Gly Phe Val Ser
 290 295 300
 Phe Asp Asn Pro Thr Ser Ala Gln Thr Ala Ile Gln Ala Met Asn Gly
 305 310 315 320
 Phe Gln Ile Gly Met Lys Arg Leu Lys Val Gln Leu Lys Arg Pro Lys
 325 330 335
 Asp Ala Asn Arg Pro Tyr
 340

<210> 2654

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2654

Met Gln Gly Ser His Leu His Gly Ser Tyr Gly Arg Pro Arg Lys Pro
 1 5 10 15
 Asp Leu Leu Pro Pro Ser Ser Cys Leu Cys Ser Phe Ser Leu Gln Ile
 20 25 30
 Ser Pro Pro Arg Gln Pro Phe Arg Leu Leu Arg Gly Trp Gly Val Gly
 35 40 45
 Lys Leu Arg Gly Ser Leu Pro Arg Lys Ala Gly Ala Thr Ile Ser Pro
 50 55 60
 Ser Ser Gly Leu Gln Leu Pro Met Glu Ala Gln Gly Ala Pro Gly Leu
 65 70 75 80
 Val Tyr Arg Thr Gln Ser Trp Ser Pro Gly Leu Leu Pro Gly Gln Thr
 85 90 95
 Pro Ser Thr Pro Gly Ala His Val Ser Val Pro His Ala Ile Asn Asp

100	105	110
Pro Pro Leu Leu Phe Cys Val Ser Tyr Ser Leu Ser Val		
115	120	125

<210> 2655

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2655

Met Arg Arg Gln Lys Ala Glu Ala Gly Leu Arg Leu Ile Gln Lys Val			
1	5	10	15
Gly Val Gly Trp Val Arg Gly Met Trp Ser Thr Lys Ala Ser His Pro			
20	25	30	
Pro Leu Thr Arg Ala Pro Ser Pro Gln Val Ser Pro Ala His Trp Ile			
35	40	45	
Arg Lys Ser Ser Val Arg Pro Glu Ala Pro Gly Thr Gly Phe Ser Gln			
50	55	60	
Phe Ser Arg Glu Gly His Leu Gln Val Thr Glu Thr Ser Ser Thr Arg			
65	70	75	80
Glu Asp Leu Thr Phe Glu Ser Leu Pro Gly His Gln Arg Pro Ser Gln			
85	90	95	
Pro His Gly Lys Leu Pro Arg Pro Asp Ser Gly Ile Ile Pro Pro Trp			
100	105	110	
Leu Arg His Gln Pro Gly Lys Thr			
115	120		

<210> 2656

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2656

Met Tyr Glu Ile Ala Ala Pro Asn Val Ala Phe Met Thr Leu Arg Ser

```

      1             5             10             15
Met Cys Asn Thr Ser Lys Met Val Thr Cys Ala Lys Ile Phe Phe Tyr
      20             25             30
Phe Leu Val Phe Phe Ser Leu Ser Gln Asn Val Pro Thr Ile Gly Val
      35             40             45
Ile Ala Val Val Leu Ala Thr His Leu Cys Asp Glu Val Ser Leu Ala
      50             55             60
Gly Phe Gly Tyr Asp Leu Asn Gln Pro Arg Thr Pro Leu His Tyr Phe
      65             70             75             80
Asp Ser Gln Cys Met Ala Ala Met Asn Phe Gln Thr Met His Asn Val
      85             90             95
Thr Thr Glu Thr Lys Phe Leu Leu Lys Leu Val Lys Glu Gly Val Val
      100            105            110
Lys Asp Leu Ser Gly Gly Ile Asp Arg Glu Phe
      115            120

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<210> 2657

<211> 246

<212> PRT

<213> Homo sapiens

<400> 2657

```

Met Trp Leu Trp Val Leu Ala Ala Gln Arg Phe Ser Ser Arg Leu Leu
      1             5             10             15
Pro Gln Ser Glu Ser Ile Ala Thr Leu Thr Ser Pro Val Ala Val Leu
      20             25             30
Ala Thr Leu Arg Ser Gly Leu Pro Met Arg Val Leu Asp Leu Gly Ser
      35             40             45
Gly Asn Leu Glu Glu Val Glu Ile Ala Gly Trp Asp Ser Arg Phe Arg
      50             55             60
Ala Gly Met Arg Gly Arg Glu Asp Ala Ser Leu Glu Ala Glu Trp Arg
      65             70             75             80
Ala Arg Arg Arg Arg Met Val Gln Glu Thr Ala Thr Arg Arg Pro Ala
      85             90             95
Arg Pro Ala Ser Tyr Arg Asp Pro Gly Ser Asn Pro Pro Pro Phe Arg

```

100	105	110
Lys Arg Pro Gly Ser Arg Tyr Leu Ala Gly Lys Gly Arg Ser Gly Ala		
115	120	125
Lys Arg Ala Gly His Gly Glu Ala Ala Gly Thr Arg Gly Cys Arg Glu		
130	135	140
Arg Gln Trp His Gly Ala Arg Gly Trp Lys Arg Lys Gln Ala Val Trp		
145	150	155
Pro Ser Pro Gly Ala Arg Pro Ile Gly Arg Trp Val Pro Arg Pro Gly		
165	170	175
Ala Ala Arg Gln Val Gln Ala Gln Gly Thr Thr Gln Pro Leu Gln His		
180	185	190
Pro Leu Gly Arg Ser Leu Gln Pro Ser Arg Pro Ser Leu Ser Ala Val		
195	200	205
Ala Lys Thr Glu Ala Val Val Pro Val Thr Gly Val Ala Cys Gly Gly		
210	215	220
Pro Arg Met Arg Ala Thr Asn Glu Arg Leu Ser Lys Arg Arg Tyr Phe		
225	230	235
Ala Ser Ile Leu Val Tyr		240
245		

<210> 2658

<211> 337

<212> PRT

<213> Homo sapiens

<400> 2658

Met Glu Lys Ser Trp Met Leu Trp Asn Phe Val Glu Arg Trp Leu Ile
1 5 10 15
Ala Leu Ala Ser Trp Ser Trp Ala Leu Cys Arg Ile Ser Leu Leu Pro
20 25 30
Leu Ile Val Thr Phe His Leu Tyr Gly Gly Ile Ile Leu Leu Leu Leu
35 40 45
Ile Phe Ile Ser Ile Ala Gly Ile Leu Tyr Lys Phe Gln Asp Val Leu
50 55 60
Leu Tyr Phe Pro Glu Gln Pro Ser Ser Ser Arg Leu Tyr Val Pro Met

65	70	75	80
Pro Thr Gly Ile	Pro His Glu Asn Ile	Phe Ile Arg Thr	Lys Asp Gly
	85	90	95
Ile Arg Leu Asn	Leu Ile Leu Ile	Arg Tyr Thr Gly	Asp Asn Ser Pro
	100	105	110
Tyr Ser Pro Thr	Ile Ile Tyr Phe	His Gly Asn Ala	Gly Asn Ile Gly
	115	120	125
His Arg Leu Pro	Asn Ala Leu Leu	Met Leu Val Asn	Leu Lys Val Asn
	130	135	140
Leu Leu Leu Val	Asp Tyr Arg Gly	Tyr Gly Lys Ser	Glu Gly Glu Ala
145	150	155	160
Ser Glu Glu Gly	Leu Tyr Leu Asp	Ser Glu Ala Val	Leu Asp Tyr Val
	165	170	175
Met Thr Arg Pro	Asp Leu Asp Lys	Thr Lys Ile Phe	Leu Phe Gly Arg
	180	185	190
Ser Leu Gly Gly	Ala Val Ala Ile	His Leu Ala Ser	Glu Asn Ser His
	195	200	205
Arg Ile Ser Ala	Ile Met Val Glu	Asn Thr Phe Leu	Ser Ile Pro His
	210	215	220
Met Ala Ser Thr	Leu Phe Ser Phe	Phe Pro Met Arg	Tyr Leu Pro Leu
225	230	235	240
Trp Cys Tyr Lys	Asn Lys Phe Leu	Ser Tyr Arg Lys	Ile Ser Gln Cys
	245	250	255
Arg Met Pro Ser	Leu Phe Ile Ser	Gly Leu Ser Asp	Gln Leu Ile Pro
	260	265	270
Pro Val Met Met	Lys Gln Leu Tyr	Glu Leu Ser Pro	Ser Arg Thr Lys
	275	280	285
Arg Leu Ala Ile	Phe Pro Asp Gly	Thr His Asn Asp	Thr Trp Gln Cys
	290	295	300
Gln Gly Tyr Phe	Thr Ala Leu Glu	Gln Phe Ile Lys	Glu Val Val Lys
305	310	315	320
Ser His Ser Pro	Glu Glu Met Ala	Lys Thr Ser Ser	Asn Val Thr Ile
	325	330	335
Ile			

<210> 2659

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2659

```

Met Thr Pro Pro Ser Thr Pro Asn Pro Ala Glu Cys Gly Gly Asp Leu
  1             5             10             15
Gly Arg Arg Gln Gly Leu Pro Gly Arg Ser Gly Cys Trp Gly Trp Gly
      20             25             30
Thr Gly Pro Ala Gly Glu Ala Gly Arg Gly Arg Thr Gly Asp Pro Gly
      35             40             45
Ser Pro Arg Tyr Asn Glu Pro Arg Gly Arg Glu Tyr Ala Ile Pro Val
      50             55             60
Pro Thr Ser Glu Asp Val Gly Leu Leu Ala Pro Ala Ala Ala Ala Phe
      65             70             75             80
Pro His Ile Trp Ala Gly Pro Arg Ser Met Ala Trp Gly Ala Glu Ala
      85             90             95
Ser Gly Ser Gly Thr Asn Tyr His Ser Arg Cys Arg Arg Arg Arg Trp
      100             105             110
Gly Val Gly Ser Arg Gly Pro Trp Ser Glu Gln Thr Phe Ser Pro Leu
      115             120             125
Gly Leu Pro Pro Pro Gly Ala Gly Leu Thr Gly Lys Asp Pro Arg Gly
      130             135             140
Val Gly Cys Pro
145

```

<210> 2660

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2660

```

Met Tyr Phe Thr Glu Phe Pro Thr Ala His Val Ser Phe Leu Pro Phe

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```

      1             5             10             15
Arg Val Asp Leu Ser Asn Val Leu Asp Leu His Ala Phe Asp Ser Leu
      20             25             30
Ser Gly Ile Ser Leu Gln Lys Lys Leu Gln His Val Pro Gly Thr Gln
      35             40             45
Pro His Leu Asp Gln Ser Ile Val Thr Ile Thr Phe Glu Val Pro Gly
      50             55             60
Asn Ala Lys Glu Glu His Leu Asn Met Phe Ile Gln Asn Leu Leu Trp
      65             70             75             80
Glu Lys Asn Val Arg Asn Lys Asp Asn His Cys Met Glu Val Ile Arg
      85             90             95
Leu Lys Gly Leu Val Ser Ile Lys Asp Lys Ser Gln Gln Val Ile Val
      100            105            110
Gln Gly Val His Glu Leu Tyr Asp Leu Glu Glu Thr Pro Val Ser Trp
      115            120            125
Lys Asp Asp Thr Glu Arg Thr Asn Arg Leu Val Leu Leu Gly Arg Asn
      130            135            140
Leu Asp Lys Asp Ile Leu Lys Gln Leu Phe Ile Ala Thr Val Thr Glu
      145            150            155            160
Thr Glu Lys Gln Trp Thr Thr His Phe Lys Glu Asp Gln Val Cys Thr
      165            170            175

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<210> 2661

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2661

```

Met Cys Gly Trp Ala Ala Tyr Leu Met Arg Glu Pro Pro Pro Lys Pro
      1             5             10             15
Glu Pro Ser Ser Leu Cys Gly Gln His Pro Gly Arg Pro Gly Gly Ala
      20             25             30
Ala Ser Pro Ala Pro Thr Pro Ser Ala Trp Cys Trp Pro Val Ala Pro
      35             40             45
Glu Pro Leu Thr Ser Pro Val Arg Gly Leu Gly Pro Ser Pro Gly Pro

```

50 55 60
 Trp Trp Gln Leu Pro Val Ala Gln Ala Ala Cys Pro Ala Pro Arg Val
 65 70 75 80
 Glu Val Glu Leu Arg Gly Leu Leu Leu Gln Gly Ala Glu Gly Gln Arg
 85 90 95
 Pro Gly Phe Gly Tyr Gly Gly Arg Ala Ser Asp Tyr Lys Ser Ala His
 100 105 110
 Lys Gly Phe Lys Gly Val Asp Ala Gln Gly Thr Leu Ser Lys Ile Phe
 115 120 125
 Lys Leu Gly Gly Arg Asp Ser Arg Ser Gly Ser Pro Met Ala Arg Arg
 130 135 140

<210> 2662

<211> 907

<212> PRT

<213> Homo sapiens

<400> 2662

Met Gln Pro Lys Thr Val Phe Pro Pro Leu Thr Gln Ile Lys Leu Gln
 1 5 10 15
 Arg Tyr Pro Glu Ser Ala Glu Glu Lys Val Lys Val Glu Pro Leu Asp
 20 25 30
 Ser Leu Ser Leu Phe His Leu Lys Thr Glu Ser Asn Gly Lys Ala Phe
 35 40 45
 Thr Asp Lys Ala Tyr Asn Ser Gln Val Gln Leu Thr Val Asn Ala Asn
 50 55 60
 Gln Lys Ala His Pro Leu Thr Gln Pro Ser Ser Pro Pro Asn Gln Cys
 65 70 75 80
 Ala Asn Val Met Ala Gly Asp Asp Gln Ile Arg Phe Gln Gln Val Val
 85 90 95
 Lys Glu Gln Leu Met His Gln Arg Leu Pro Thr Leu Pro Gly Ile Ser
 100 105 110
 His Glu Thr Pro Leu Pro Glu Ser Ala Leu Thr Leu Arg Asn Val Asn
 115 120 125
 Val Val Cys Ser Gly Gly Ile Thr Val Val Ser Thr Lys Ser Glu Glu

130	135	140	
Glu Val Cys Ser Ser Ser Phe Gly Thr Ser Glu Phe Ser Thr Val Asp			
145	150	155	160
Ser Ala Gln Lys Asn Phe Asn Asp Tyr Ala Met Asn Phe Phe Thr Asn			
	165	170	175
Pro Thr Lys Asn Leu Val Ser Ile Thr Lys Asp Ser Glu Leu Pro Thr			
	180	185	190
Cys Ser Cys Leu Asp Arg Val Ile Gln Lys Asp Lys Gly Pro Tyr Tyr			
	195	200	205
Thr His Leu Gly Ala Gly Pro Ser Val Ala Ala Val Arg Glu Ile Met			
	210	215	220
Glu Asn Arg Tyr Gly Gln Lys Gly Asn Ala Ile Arg Ile Glu Ile Val			
225	230	235	240
Val Tyr Thr Gly Lys Glu Gly Lys Ser Ser His Gly Cys Pro Ile Ala			
	245	250	255
Lys Trp Val Leu Arg Arg Ser Ser Asp Glu Glu Lys Val Leu Cys Leu			
	260	265	270
Val Arg Gln Arg Thr Gly His His Cys Pro Thr Ala Val Met Val Val			
	275	280	285
Leu Ile Met Val Trp Asp Gly Ile Pro Leu Pro Met Ala Asp Arg Leu			
	290	295	300
Tyr Thr Glu Leu Thr Glu Asn Leu Lys Ser Tyr Asn Gly His Pro Thr			
305	310	315	320
Asp Arg Arg Cys Thr Leu Asn Glu Asn Arg Thr Cys Thr Cys Gln Gly			
	325	330	335
Ile Asp Pro Glu Thr Cys Gly Ala Ser Phe Ser Phe Gly Cys Ser Trp			
	340	345	350
Ser Met Tyr Phe Asn Gly Cys Lys Phe Gly Arg Ser Pro Ser Pro Arg			
	355	360	365
Arg Phe Arg Ile Asp Pro Ser Ser Pro Leu His Glu Lys Asn Leu Glu			
	370	375	380
Asp Asn Leu Gln Ser Leu Ala Thr Arg Leu Ala Pro Ile Tyr Lys Gln			
385	390	395	400
Tyr Ala Pro Val Ala Tyr Gln Asn Gln Val Glu Tyr Glu Asn Val Ala			
	405	410	415
Arg Glu Cys Arg Leu Gly Ser Lys Glu Gly Arg Pro Phe Ser Gly Val			

420	425	430
Thr Ala Cys Leu Asp Phe Cys	Ala His Pro His Arg Asp Ile His Asn	
435	440	445
Met Asn Asn Gly Ser Thr Val	Val Cys Thr Leu Thr Arg Glu Asp Asn	
450	455	460
Arg Ser Leu Gly Val Ile Pro	Gln Asp Glu Gln Leu His Val Leu Pro	
465	470	475
Leu Tyr Lys Leu Ser Asp Thr	Asp Glu Phe Gly Ser Lys Glu Gly Met	
485	490	495
Glu Ala Lys Ile Lys Ser Gly	Ala Ile Glu Val Leu Ala Pro Arg Arg	
500	505	510
Lys Lys Arg Thr Cys Phe Thr	Gln Pro Val Pro Arg Ser Gly Lys Lys	
515	520	525
Arg Ala Ala Met Met Thr	Glu Val Leu Ala His Lys Ile Arg Ala Val	
530	535	540
Glu Lys Lys Pro Ile Pro Arg	Ile Lys Arg Lys Asn Asn Ser Thr Thr	
545	550	555
Thr Asn Asn Ser Lys Pro Ser	Ser Leu Pro Thr Leu Gly Ser Asn Thr	
565	570	575
Glu Thr Val Gln Pro Glu Val	Lys Ser Glu Thr Glu Pro His Phe Ile	
580	585	590
Leu Lys Ser Ser Asp Asn Thr	Lys Thr Tyr Ser Leu Met Pro Ser Ala	
595	600	605
Pro His Pro Val Lys Glu Ala	Ser Pro Gly Phe Ser Trp Ser Pro Lys	
610	615	620
Thr Ala Ser Ala Thr Pro Ala	Pro Pro Lys Asn Asp Ala Thr Ala Ser	
625	630	635
Cys Gly Phe Ser Glu Arg Ser	Ser Thr Pro His Cys Thr Met Pro Ser	
645	650	655
Gly Arg Leu Ser Gly Ala Asn	Ala Ala Ala Asp Gly Pro Gly Ile	
660	665	670
Ser Gln Leu Gly Glu Val Ala	Pro Leu Pro Thr Leu Ser Ala Pro Val	
675	680	685
Met Glu Pro Leu Ile Asn Ser	Glu Pro Ser Thr Gly Val Thr Glu Pro	
690	695	700
Leu Thr Pro His Gln Pro Asn	His Gln Pro Ser Phe Leu Thr Ser Pro	

705 710 715 720
 Gln Asp Leu Ala Ser Ser Pro Met Glu Glu Asp Glu Gln His Ser Glu
 725 730 735
 Ala Asp Glu Pro Pro Ser Asp Glu Pro Leu Ser Asp Asp Pro Leu Ser
 740 745 750
 Pro Ala Glu Glu Lys Leu Pro His Ile Asp Glu Tyr Trp Ser Asp Ser
 755 760 765
 Glu His Ile Phe Leu Asp Ala Asn Ile Gly Gly Val Ala Ile Ala Pro
 770 775 780
 Ala His Gly Ser Val Leu Ile Glu Cys Ala Arg Arg Glu Leu His Ala
 785 790 795 800
 Thr Thr Pro Val Glu His Pro Asn Arg Asn His Pro Thr Arg Leu Ser
 805 810 815
 Leu Val Phe Tyr Gln His Lys Asn Leu Asn Lys Pro Gln His Gly Phe
 820 825 830
 Glu Leu Asn Lys Ile Lys Phe Glu Ala Lys Glu Ala Lys Asn Lys Lys
 835 840 845
 Met Lys Ala Ser Glu Gln Lys Asp Gln Ala Ala Asn Glu Gly Pro Glu
 850 855 860
 Gln Ser Ser Glu Val Asn Glu Leu Asn Gln Ile Pro Ser His Lys Ala
 865 870 875 880
 Leu Thr Leu Thr His Asp Asn Val Val Thr Val Ser Pro Tyr Ala Leu
 885 890 895
 Thr His Val Ala Gly Pro Tyr Asn His Trp Val
 900 905

<210> 2663

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2663

Met Ala His Ala Leu Arg Arg Ile Leu Tyr Ser Thr Trp Cys Pro Ala
 1 5 10 15
 Asp Cys Gln Phe Ala Phe Met Ala Arg Asn Pro Arg Ser Pro Ala Ser

	20		25		30										
Lys	Leu	Phe	Cys	His	Leu	Phe	Val	Gly	Ser	Gln	Pro	Gly	Glu	Val	Gln
	35		40		45										
Ile	Leu	His	Leu	Leu	Leu	Cys	Arg	Ser	Phe	Gln	Leu	Ala	Tyr	Leu	Leu
	50		55		60										
Gln	His	Pro	Glu	Glu	Arg	Ala	Gln	Pro	Glu	Pro	Cys	Pro	Gly	Pro	Thr
65			70		75										80
Gly	Glu	Val	Pro	Leu	Lys	Pro	Leu	Ser	Ser	Ser	Gly	Gly	Leu	Val	Arg
	85		90		95										
Glu	Pro	Phe	Gly	Arg	Asp	Gln	Leu	Ser	Gln	Asn	Val	His	Ala	Leu	Val
	100		105		110										
Ser	Phe	Arg	Arg	Leu	Pro	Ala	Glu	Gly	Leu	Val	Gly	Ser	Gly	Lys	Glu
	115		120		125										
Leu	Pro	Glu	Ser	Glu	Gly	Arg	Ala	Arg	His	Ala	Arg	Leu	Gly	Asn	Pro
	130		135		140										
Tyr	Cys	Ser	Pro	Thr	Leu	Val	Arg	Lys	Lys	Ala	Ile	Arg	Ser	Lys	Val
145			150		155										160
Ile	Arg	Ser	Gly	Ala	Tyr	Arg	Gly	Cys	Thr	Tyr	Glu	Thr	Gln	Leu	Gln
	165		170		175										
Leu	Ser	Ala	Arg	Glu	Ala	Phe	Pro	Ala	Ala	Trp	Glu	Ala	Trp	Pro	Arg
	180		185		190										
Gly	Pro	Gly	Gly	His	Ser	Cys	Leu	Val	Glu	Ser	Glu	Gly	Ser	Leu	Thr
	195		200		205										
Glu	Asn	Ile	Trp	Ala	Phe	Ala	Gly	Ile	Ser	Arg	Pro	Cys	Ala	Leu	Ala
	210		215		220										
Leu	Leu	Arg	Arg	Asp	Val	Leu	Gly	Ala	Phe	Leu	Leu	Trp	Pro	Glu	Leu
225			230		235										240
Gly	Ala	Ser	Gly	Gln	Trp	Cys	Leu	Ser	Val	Arg	Thr	Gln	Cys	Gly	Val
	245		250		255										
Val	Pro	His	Gln	Val	Phe	Arg	Asn	His	Leu	Gly	Arg	Tyr	Cys	Leu	Glu
	260		265		270										
His	Leu	Pro	Ala	Glu	Phe	Pro	Ser	Leu	Glu	Ala	Leu	Val	Glu	Asn	His
	275		280		285										
Ala	Val	Thr	Glu	Arg	Ser	Leu	Phe	Cys	Pro	Leu	Asp	Met	Gly	Arg	Leu
	290		295		300										
Asn	Pro	Thr	Tyr	Glu	Glu	Gln	Asp	Cys	Gly	Pro	Pro	Gly	Arg	Pro	Pro

305 310 315 320
 Arg Thr Leu Arg Pro Leu Ser His Ala Lys Ser Glu Ala Glu Leu Gln
 325 330 335
 Gly Leu Gly

<210> 2664

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2664

Met Lys Ser Cys Thr Ala Val Val Arg Arg Ser Trp His Leu Phe Gly
 1 5 10 15
 Lys His Gln Pro Gln Gln Met Gln Leu Leu His Phe Ile Pro Lys Asp
 20 25 30
 Gln Val Leu Leu Leu Lys Glu Leu Cys Ile Pro Leu Ser Ser Pro Glu
 35 40 45
 Pro His Ser Ser His Trp Leu Ser Phe Ser Phe Pro Phe Arg Val Thr
 50 55 60
 His Arg Pro Ser Pro Ser Val Pro Val Arg Leu Cys Cys Glu Arg Asp
 65 70 75 80
 Glu Ala Phe Pro Val Lys Ser Phe His Glu Leu Ile Leu Ile Leu Leu
 85 90 95
 Pro His Phe His Pro Trp Cys Asp Cys Phe Ala Ile Gln Asp Tyr Leu
 100 105 110

<210> 2665

<211> 137

<212> PRT

<213> Homo sapiens

<400> 2665

Met Lys Lys Val Leu Ile Gly Val Val Val Gly Val Phe Glu Cys Pro

1 5 10 15
 Leu Pro Ser Leu Cys Pro Met Phe Ser Leu Cys Gly Gln Arg Gly Thr
 20 25 30
 Gly Phe Gly Thr Val Leu Ile Thr Ala Gly Leu Pro Phe Thr Ala Gly
 35 40 45
 Ser Arg Leu Trp Val Gly Val Gly Val Val Pro Leu Cys Leu Leu Leu
 50 55 60
 Leu Pro Leu Leu Ala Leu Gln Thr Tyr Tyr Phe Arg Val Ser Gly Leu
 65 70 75 80
 Leu His Gly Trp Gln Ser His Ala His Thr Arg Gly Glu Glu His Gly
 85 90 95
 Trp Val Asn Glu Ser Arg Arg Tyr Ser Trp Asp Glu Lys Trp Val Lys
 100 105 110
 Ser His Arg Thr Thr Ser Ser Tyr Cys Arg Phe Arg Leu Ile Arg Lys
 115 120 125
 Trp Thr Trp Thr Arg Leu Val Leu Ser
 130 135

<210> 2666

<211> 212

<212> PRT

<213> Homo sapiens

<400> 2666

Met Asp Gly Trp Met Asp Gly Trp Val Gly Gly Trp Gly Trp Met Asp
 1 5 10 15
 Arg Trp Met Asp Gly Trp Thr Asp Gly Val Gly Glu Gly Arg Lys Gly
 20 25 30
 Gly Arg Lys Glu Gly Ile Leu Ala Pro Ser Leu Arg Ala Leu Val Gly
 35 40 45
 Arg Ala Glu Thr Gly His Ser Ala Gln Pro Gly His Pro His Glu Gly
 50 55 60
 Ser Gln Val Thr Leu Val Ala Gln Ile Ala Leu Arg Thr Trp Arg Asp
 65 70 75 80
 Arg Pro Glu Ser Gly Ser Pro Pro Leu Pro Leu Ser Ser Leu Leu Phe

	85	90	95
Pro	Gln	Ala	Trp
Glu	Gln	Ser	Ile
Pro	Gln	Pro	Cys
His	Leu	Pro	Tyr
100	105	110	
Ser	Ser	Leu	Phe
His	Ser	Phe	Pro
Phe	Leu	Ala	Pro
Ser	Ala	Leu	Pro
115	120	125	
Val	Phe	Pro	Glu
Cys	Leu	Arg	Gly
Glu	Arg	Asp	Pro
His	Leu	Pro	Lys
130	135	140	
Glu	Met	Ser	Phe
Trp	Gly	Thr	Thr
Ser	His	Arg	Ser
Pro	Pro	His	Pro
145	150	155	160
Thr	Thr	Pro	Pro
Thr	Trp	Pro	Leu
Ala	Lys	Ser	Gln
Ala	Glu	Leu	Ala
165	170	175	
Thr	Gly	Lys	Ala
Glu	Pro	Gln	Glu
Arg	His	Ser	Thr
Ile	Tyr	Thr	Leu
180	185	190	
Leu	Tyr	Ile	Leu
Phe	Leu	Leu	Tyr
Ile	His	Ser	Val
His	Val	Gly	Val
195	200	205	
Asn	Ala	Val	Lys
210			

<210> 2667

<211> 1084

<212> PRT

<213> Homo sapiens

<400> 2667

Met	Val	Ala	Leu	Arg	Gly	Leu	Gly	Ser	Gly	Leu	Gln	Pro	Trp	Cys	Pro
1				5					10					15	
Leu	Asp	Leu	Arg	Leu	Glu	Trp	Val	Asp	Thr	Val	Trp	Glu	Leu	Asp	Phe
20								25					30		
Thr	Glu	Thr	Glu	Pro	Leu	Asp	Pro	Ser	Ile	Glu	Ala	Glu	Ile	Ile	Glu
35								40					45		
Thr	Gly	Leu	Ala	Ala	Phe	Thr	Lys	Leu	Tyr	Glu	Ser	Leu	Leu	Pro	Phe
50							55					60			
Ala	Thr	Gly	Glu	His	Gly	Ser	Met	Glu	Ser	Ile	Trp	Thr	Phe	Phe	Ile
65					70					75				80	

Glu Asn Asn Val Ser His Ser Thr Leu Val Ala Leu Phe Tyr His Phe
 85 90 95
 Val Gln Ile Val His Lys Lys Asn Val Ser Val Gln Tyr Arg Glu Tyr
 100 105 110
 Gly Leu His Ala Ala Gly Leu Tyr Phe Leu Leu Leu Glu Val Pro Gly
 115 120 125
 Ser Val Ala Asn Gln Val Phe His Pro Val Met Phe Asp Lys Cys Ile
 130 135 140
 Gln Thr Leu Lys Lys Ser Trp Pro Gln Glu Ser Asn Leu Asn Arg Lys
 145 150 155 160
 Arg Lys Lys Glu Gln Pro Lys Ser Ser Gln Ala Asn Pro Gly Arg His
 165 170 175
 Arg Lys Arg Gly Lys Pro Pro Arg Arg Glu Asp Ile Glu Met Asp Glu
 180 185 190
 Ile Ile Glu Glu Gln Glu Asp Glu Asn Ile Cys Phe Ser Ala Arg Asp
 195 200 205
 Leu Ser Gln Ile Arg Asn Ala Ile Phe His Leu Leu Lys Asn Phe Leu
 210 215 220
 Arg Leu Leu Pro Lys Phe Ser Leu Lys Glu Lys Pro Gln Cys Val Gln
 225 230 235 240
 Asn Cys Ile Glu Val Phe Val Ser Leu Thr Asn Phe Glu Pro Val Leu
 245 250 255
 His Glu Cys His Val Thr Gln Ala Arg Ala Leu Asn Gln Ala Lys Tyr
 260 265 270
 Ile Pro Glu Leu Ala Tyr Tyr Gly Leu Tyr Leu Leu Cys Ser Pro Ile
 275 280 285
 His Gly Glu Gly Asp Lys Val Ile Ser Cys Val Phe His Gln Met Leu
 290 295 300
 Ser Val Ile Leu Met Leu Glu Val Gly Glu Gly Ser His Arg Ala Pro
 305 310 315 320
 Leu Ala Val Thr Ser Gln Val Ile Asn Cys Arg Asn Gln Ala Val Gln
 325 330 335
 Phe Ile Ser Ala Leu Val Asp Glu Leu Lys Glu Ser Ile Phe Pro Val
 340 345 350
 Val Arg Ile Leu Leu Gln His Ile Cys Ala Lys Val Val Asp Lys Ser
 355 360 365

Glu Tyr Arg Thr Phe Ala Ala Gln Ser Leu Val Gln Leu Leu Ser Lys
 370 375 380
 Leu Pro Cys Gly Glu Tyr Ala Met Phe Ile Ala Trp Leu Tyr Lys Tyr
 385 390 395 400
 Ser Arg Ser Ser Lys Ile Pro His Arg Val Phe Thr Leu Asp Val Val
 405 410 415
 Leu Ala Leu Leu Glu Leu Pro Glu Arg Glu Val Asp Asn Thr Leu Ser
 420 425 430
 Leu Glu His Gln Lys Phe Leu Lys His Lys Phe Leu Val Gln Glu Ile
 435 440 445
 Met Phe Asp Arg Cys Leu Asp Lys Ala Pro Thr Val Arg Ser Lys Ala
 450 455 460
 Leu Ser Ser Phe Ala His Cys Leu Glu Leu Thr Val Thr Ser Ala Ser
 465 470 475 480
 Glu Ser Ile Leu Glu Leu Leu Ile Asn Ser Pro Thr Phe Ser Val Ile
 485 490 495
 Glu Ser His Pro Gly Thr Leu Leu Arg Asn Ser Ser Ala Phe Ser Tyr
 500 505 510
 Gln Arg Gln Thr Ser Asn Arg Ser Glu Pro Ser Gly Glu Ile Asn Ile
 515 520 525
 Asp Ser Ser Gly Glu Thr Val Gly Ser Gly Glu Arg Cys Val Met Ala
 530 535 540
 Met Leu Arg Arg Arg Ile Arg Asp Glu Lys Thr Asn Val Arg Lys Ser
 545 550 555 560
 Ala Leu Gln Val Leu Val Ser Ile Leu Lys His Cys Asp Val Ser Gly
 565 570 575
 Met Lys Glu Asp Leu Trp Ile Leu Gln Asp Gln Cys Arg Asp Pro Ala
 580 585 590
 Val Ser Val Arg Lys Gln Ala Leu Gln Ser Leu Thr Glu Leu Leu Met
 595 600 605
 Ala Gln Pro Arg Cys Val Gln Ile Gln Lys Ala Trp Leu Arg Gly Val
 610 615 620
 Val Pro Val Val Met Asp Cys Glu Ser Thr Val Gln Glu Lys Ala Leu
 625 630 635 640
 Glu Phe Leu Asp Gln Leu Leu Leu Gln Asn Ile Arg His His Ser His
 645 650 655

Phe His Ser Gly Asp Asp Ser Gln Val Leu Ala Trp Ala Leu Leu Thr
 660 665 670
 Leu Leu Thr Thr Glu Ser Gln Glu Leu Ser Arg Tyr Leu Asn Lys Ala
 675 680 685
 Phe His Ile Trp Ser Lys Lys Glu Lys Phe Ser Pro Thr Phe Ile Asn
 690 695 700
 Asn Val Ile Ser His Thr Gly Thr Glu His Ser Ala Pro Ala Trp Met
 705 710 715 720
 Leu Leu Ser Lys Ile Ala Gly Ser Ser Pro Arg Leu Asp Tyr Ser Arg
 725 730 735
 Ile Ile Gln Ser Trp Glu Lys Ile Ser Ser Gln Gln Asn Pro Asn Ser
 740 745 750
 Asn Thr Leu Gly His Ile Leu Cys Val Ile Gly His Ile Ala Lys His
 755 760 765
 Leu Pro Lys Ser Thr Arg Asp Lys Val Thr Asp Ala Val Lys Cys Lys
 770 775 780
 Leu Asn Gly Phe Gln Trp Ser Leu Glu Val Ile Ser Ser Ala Val Asp
 785 790 795 800
 Ala Leu Gln Arg Leu Cys Arg Ala Ser Ala Glu Thr Pro Ala Glu Glu
 805 810 815
 Gln Glu Leu Leu Thr Gln Val Cys Gly Asp Val Leu Ser Thr Cys Glu
 820 825 830
 His Arg Leu Ser Asn Ile Val Leu Lys Glu Asn Gly Thr Gly Asn Met
 835 840 845
 Asp Glu Asp Leu Leu Val Lys Tyr Ile Phe Thr Leu Gly Asp Ile Ala
 850 855 860
 Gln Leu Cys Pro Ala Arg Val Glu Lys Arg Ile Phe Leu Leu Ile Gln
 865 870 875 880
 Ser Val Leu Ala Ser Ser Ala Asp Ala Asp His Ser Pro Ser Ser Gln
 885 890 895
 Gly Ser Ser Glu Ala Pro Ala Ser Gln Pro Pro Pro Gln Val Arg Gly
 900 905 910
 Ser Val Met Pro Ser Val Ile Arg Ala His Ala Ile Ile Thr Leu Gly
 915 920 925
 Lys Leu Cys Leu Gln His Glu Asp Leu Ala Glu Lys Ser Ile Pro Ala
 930 935 940

Leu Val Arg Glu Leu Glu Val Cys Glu Asp Val Ala Val Arg Asn Asn
 945 950 955 960
 Val Ile Ile Val Met Cys Asp Leu Cys Ile Arg Tyr Thr Ile Met Val
 965 970 975
 Asp Lys Tyr Ile Pro Asn Ile Ser Met Cys Leu Lys Asp Ser Asp Pro
 980 985 990
 Phe Ile Arg Lys Gln Thr Leu Ile Leu Leu Thr Asn Leu Leu Gln Glu
 995 1000 1005
 Glu Phe Val Lys Trp Lys Gly Ser Leu Phe Phe Arg Phe Val Ser Thr
 1010 1015 1020
 Leu Ile Asp Ser His Pro Asp Ile Ala Ser Phe Gly Glu Phe Cys Leu
 1025 1030 1035 1040
 Ala His Leu Leu Leu Lys Arg Asn Pro Val Met Phe Phe Gln His Phe
 1045 1050 1055
 Ile Glu Cys Ile Phe His Phe Asn Asn Tyr Glu Lys His Glu Lys Tyr
 1060 1065 1070
 Asn Lys Phe Pro Gln Ser Glu Arg Ala Leu His Arg
 1075 1080

<210> 2668

<211> 249

<212> PRT

<213> Homo sapiens

<400> 2668

Met Arg Ala Ser Gly His Pro Val Thr Leu Pro Thr Pro Glu Gly Gln
 1 5 10 15
 Val His His Pro Glu Ser Cys Leu Ile Ser Leu Gln Thr His Cys His
 20 25 30
 Asn Asp Ile Val Asn Leu Leu Leu Asp Cys Gly Ala Asp Val Asn Lys
 35 40 45
 Cys Ser Asp Glu Gly Leu Thr Ala Leu Ser Met Cys Phe Leu Leu His
 50 55 60
 Tyr Pro Ala Gln Ser Phe Lys Pro Asn Val Ala Glu Arg Thr Ile Pro
 65 70 75 80

Glu Pro Gln Glu Pro Pro Lys Phe Pro Val Val Pro Ile Leu Ser Ser
 85 90 95
 Ser Phe Met Asp Thr Asn Leu Glu Ser Leu Tyr Tyr Glu Val Asn Val
 100 105 110
 Pro Ser Gln Gly Ser Tyr Glu Leu Arg Pro Pro Pro Ala Pro Leu Leu
 115 120 125
 Leu Pro Arg Val Ser Gly Ser His Glu Gly Gly His Phe Gln Asp Thr
 130 135 140
 Gly Gln Cys Gly Gly Ser Met Asp His Arg Ser Ser Ser Leu Lys Gly
 145 150 155 160
 Asp Ser Pro Leu Val Lys Gly Ser Leu Gly His Val Glu Ser Gly Leu
 165 170 175
 Glu Asp Val Leu Gly Asn Thr Asp Arg Gly Ser Leu Cys Ser Ala Glu
 180 185 190
 Thr Lys Phe Glu Ser Asn Val Cys Val Cys Asp Phe Ser Ile Glu Leu
 195 200 205
 Ser Gln Ala Met Leu Glu Arg Ser Ala Gln Ser His Ser Leu Leu Lys
 210 215 220
 Met Ala Ser Pro Ser Pro Cys Thr Ser Ser Phe Asp Lys Gly Thr Met
 225 230 235 240
 Arg Arg Met Ala Leu Ser Met Ile Glu
 245

<210> 2669

<211> 613

<212> PRT

<213> Homo sapiens

<400> 2669

Met Ala Thr Ile Pro Asp Trp Lys Leu Gln Leu Leu Ala Arg Arg Arg
 1 5 10 15
 Gln Glu Glu Ala Ser Val Arg Gly Arg Glu Lys Ala Glu Arg Glu Arg
 20 25 30
 Leu Ser Gln Met Pro Ala Trp Lys Arg Gly Leu Leu Glu Arg Arg Arg
 35 40 45